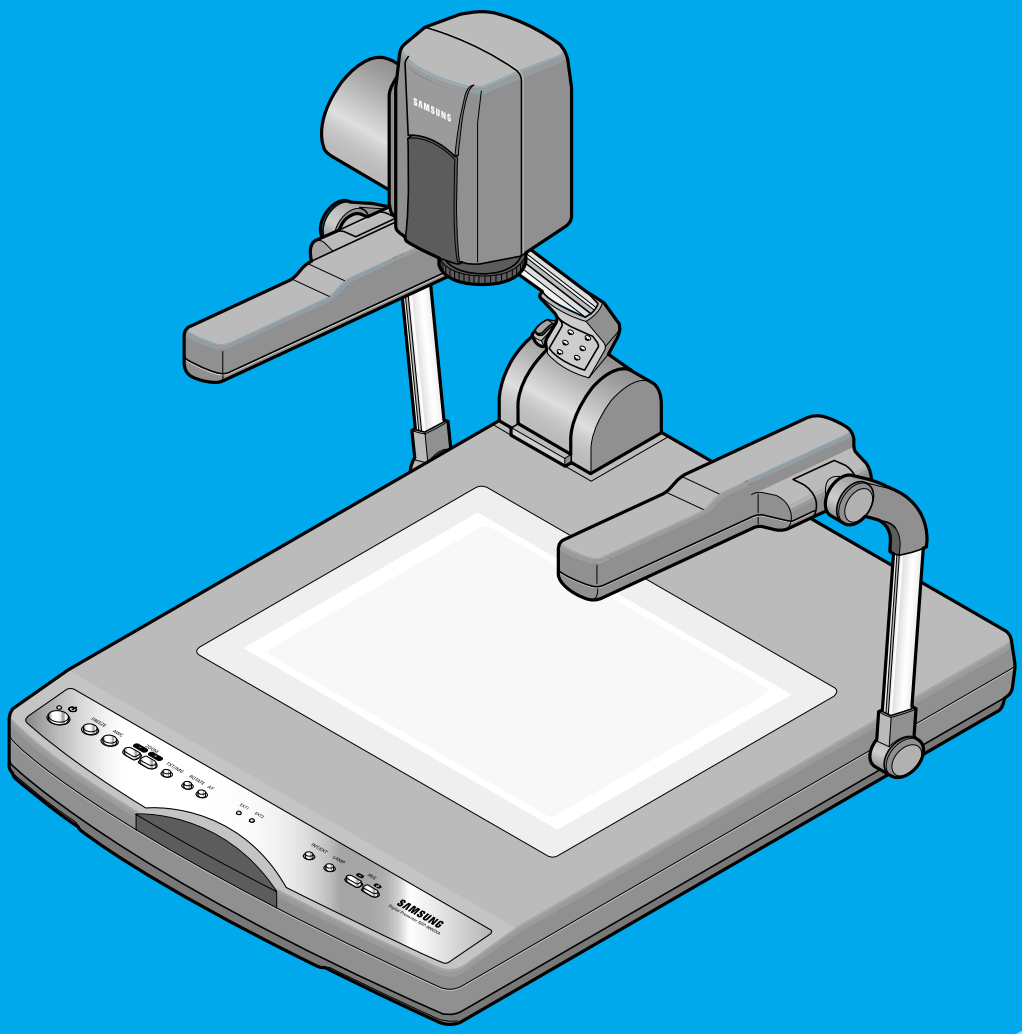
SAMSUNG

ENGLISH



HIGH RESOLUTION DIGITAL PRESENTER

USER'S MANUAL

SDP-900DXA

Before attempting to operate this product, Please read the instructions carefully.
www.samsungpresenter.com

Special features

■ Thank you for purchasing this product.
This product is a high resolution digital presenter that can project all kinds of data on a PC monitor, a TV or a large screen with simple operations.

12X optical zoom lens and 3X digital zoom

By adopting 12X super optic angle zoom lens, it is possible to shoot all materials from the size of a 35mm film to A4 size.

Adopting 850,000 pixels CCD

By adopting 1/3 inch PS type CCD, the high resolution and the excellent color reproduction are realized.

Can control USB 2.0/1.1 and RS-232C

Especially by using USB, it is possible to view or store the real time image in a PC and control the functions in a moment. Also it is possible to control the functions by using RS-232C port.

DVI port embedded

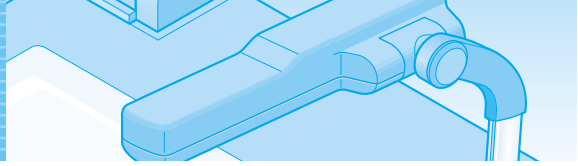
By adopting DVI(Digital Visual Interface) output port, SDP-900DXA presents vivid and noise-less images.

Remote controller is a standard feature

Remote controllers are supplied as a standard feature for the product so that it can be controlled from a distance. It gives extra convenience during a bussiness conference.

TV output mode

By adopting TV output various image data can be easily recorded in VCRs.



Features

Various image control

Digital features on your Digital Presenter provide useful and various image controls including:
- Negative/Positive image conversion
- Brightness and Red/Blue color control
- Image rotation
- Image save/recall
- Image freeze
- Image divide

Input source selection

You can quickly switch between your computer presentation and your document presentation with the INT/EXT button on the control panel or on the remote controller.

Custom user settings

To avoid any interruption of presentation to reset the digital presenter, you can preset up to 4 customized settings in the memory and simply recall it during the presentation.

Support GUI menu system

The SDP-900DXA supports GUI menu system to control various function of digital presenter with mouse operation.

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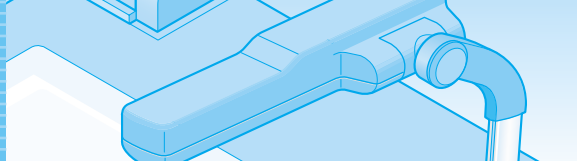


Safety precautions

Follow these safety instructions when setting up and using your Digital Presenter:

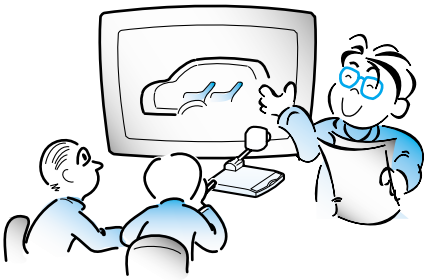
1. Do not place the presenter on an unstable cart, stand, or table
2. Do not use the presenter near water or sources of heat.
3. Use the type of power source indicated on the presenter. If you are not sure of the power available, consult your dealer or power company.
4. Place the presenter near a wall outlet where the plug can be easily unplugged.
5. Take the following precautions for the plug. Failure to comply with these precautions could result in sparks or fire:
   Do not insert the plug into an outlet with dust present. Insert the plug firmly into the outlet.
6. Do not overload wall outlets, extension cords, or integral convenience receptacles. This can cause fire or electric shock.
7. Do not place the presenter where the cord can be walked on. It may result in fraying or damage to the plug.
8. Unplug the presenter from the wall outlet before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
9. Do not block the slots and openings in the presenter case. They provide ventilation and prevent the presenter from overheating. Do not put the presenter on a sofa, rug, or other soft surface or in a built-in installation, unless proper ventilation is provided.
10. Never push objects of any kind through cabinet slots. Never spill liquid of any kind into the presenter.
11. Except as specifically explained in this User's Manual, do not attempt to service this product yourself. Refer all servicing to qualified service personnel. Opening or removing covers may expose you to dangerous voltages and other hazards.
12. Unplug the presenter during lightning storms or when it will not be used for extended periods.
13. Do not place the presenter and remote controller on top of heat-producing equipment or in a heated place, such as a car.
14. Unplug the presenter from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    - When the power cord or plug is damaged or frayed.
    - If liquid has been spilled into the presenter, or it has been exposed to rain or water.
    - If it does not operate normally when you follow the operating instructions, or if it exhibits a distinct change in performance, indicating a need for service.
    - If it has been dropped or the cabinet has been damaged.

FCC Compliance Statement

This equipment has been tested and found to comply with the limits for a class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

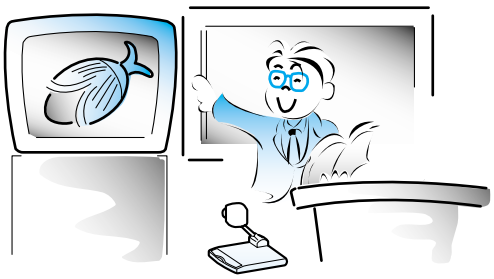
Uses of digital presenter

Conference



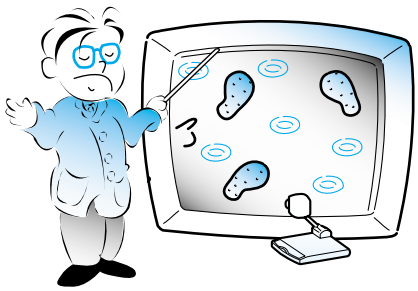
Detailed information in a report, form, table, etc. as well as a three dimensional object, such as a model, can be projected on a screen clearly that all the participants can focus on the same topic during a conference. Thus it is very helpful for an effective progress of a conference.

Education



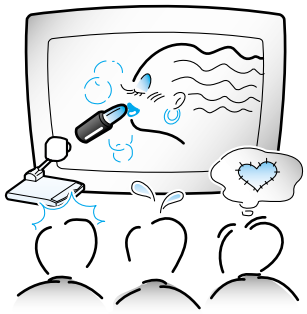
It can be used as an audiovisual tool for printed materials, such as text books, as well as audiovisual materials, educational materials, and especially for students' art works.

Medicine and science areas



It is possible to present various visual data including slides and X-ray film etc. at a medical conference or a doctors' association in the order of file.

Advertisement and design areas



It is useful in design area where visualization is necessary. It is possible to project catalogs and slides, thus the effect of a job can be checked easily.

Demonstration or exhibition

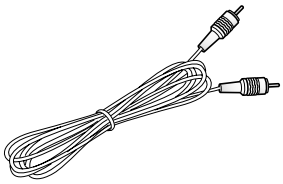
By connecting to a large projector, it can produce dynamic images at a new product demonstration, an exhibition, or an event.

Supplied accessories

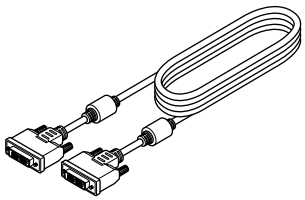
■ When you unpack your Digital Presenter, make sure that you have all these components.

User's Manual

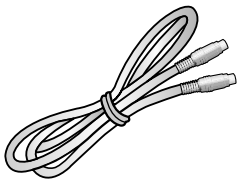
C-Composite cable



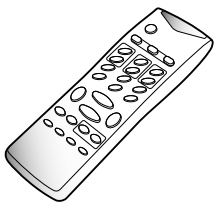
DVI cable



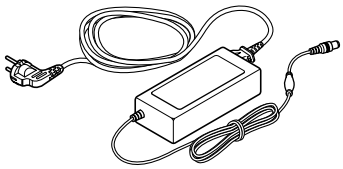
S-video cable



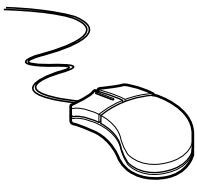
Remote controller



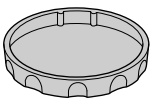
Power cable



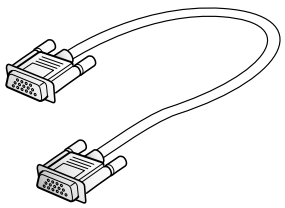
PS/2 Mouse



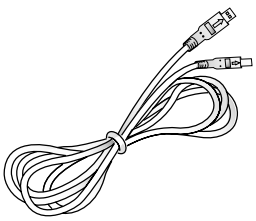
Lens cap



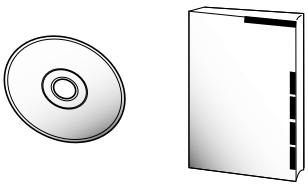
PC Monitor cable



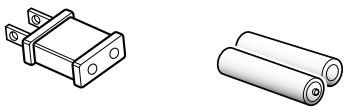
USB Cable



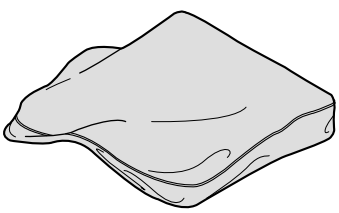
SDP-900DXA program



etc.

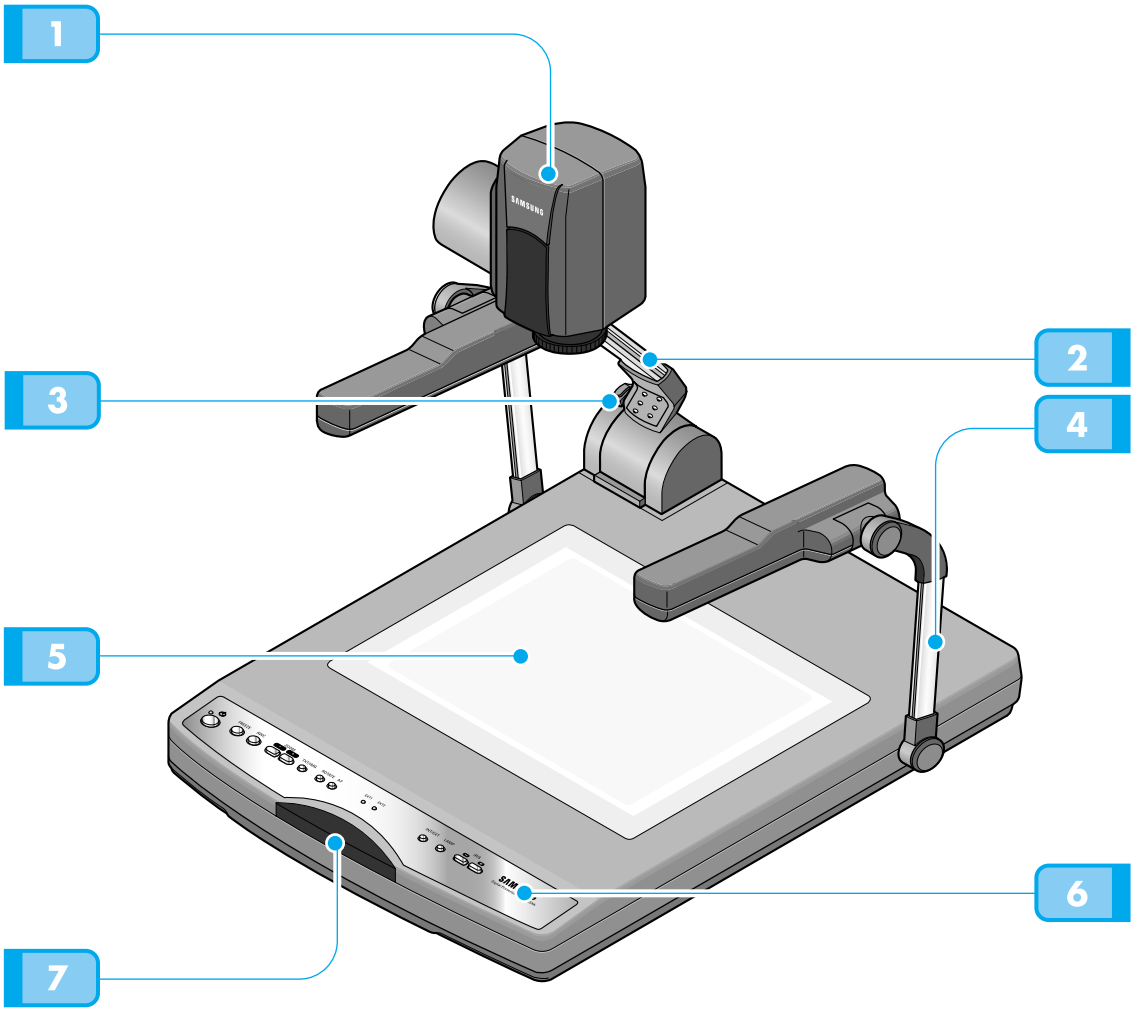


Dust cover

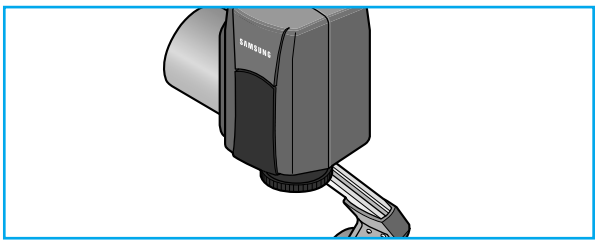


Name and function of each part

Front side



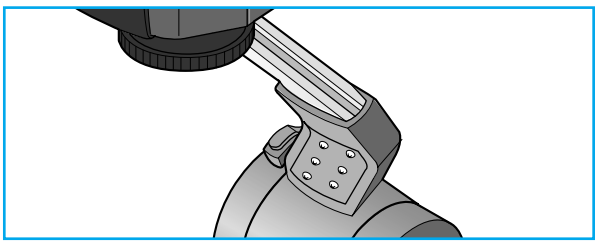
1



Lens

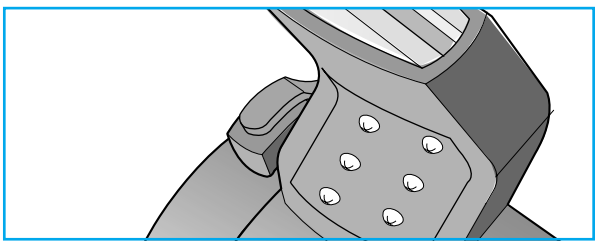
Can rotate to the front and back.

2



Main support

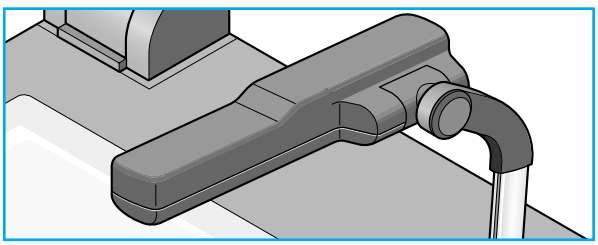
3



Main lock button

Press to move the main support.

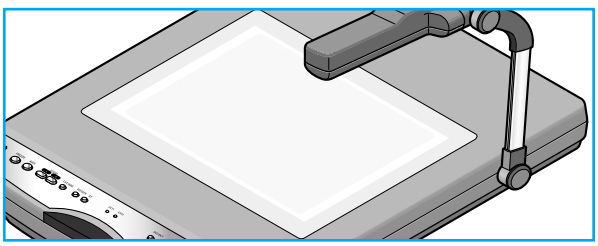
4



Lamp unit

(Upper lamp)

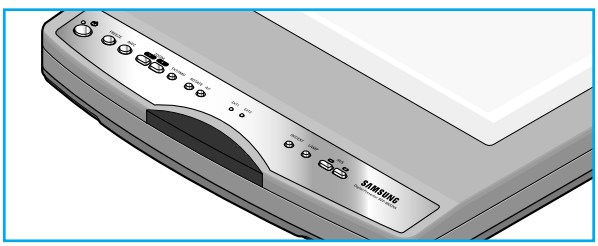
5



Document plate

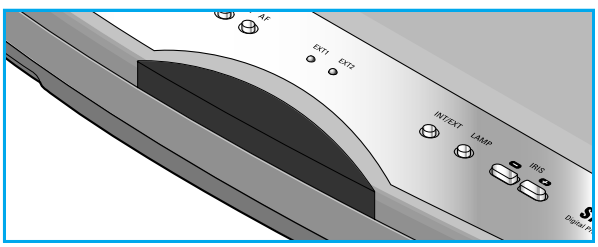
(built-in light box)

6



Main control panel

7

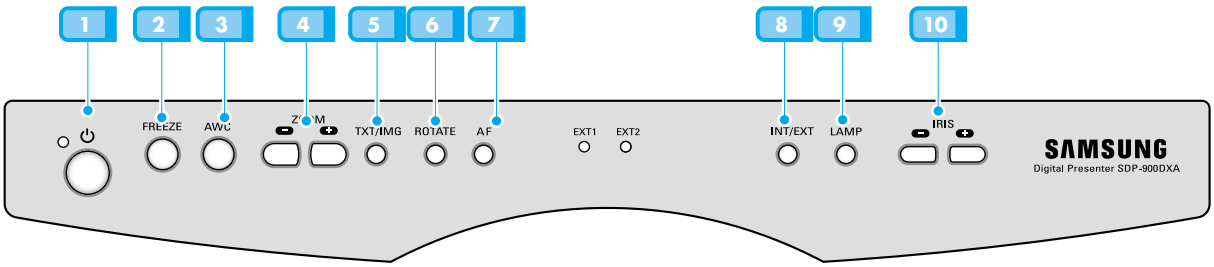


IR Sensor

Name and function of each part

Main control panel

■ The buttons on the main control panel can be found in the remote controller. These buttons perform the same functions.



1 ***POWER***
Use this to turn the power on or off.

2 ***FREEZE***
Use this to freeze the image.

3 ***AWC***
Use this to control the color automatically.

4 ***ZOOM***
Use this to control the size of an object projected on the screen.

5 ***TXT / IMG***
Use this to control the sharpness of the output image.

6 ***ROTATE***
Use this to rotate the image.

7 ***AF***
Use this adjust the focus automatically.

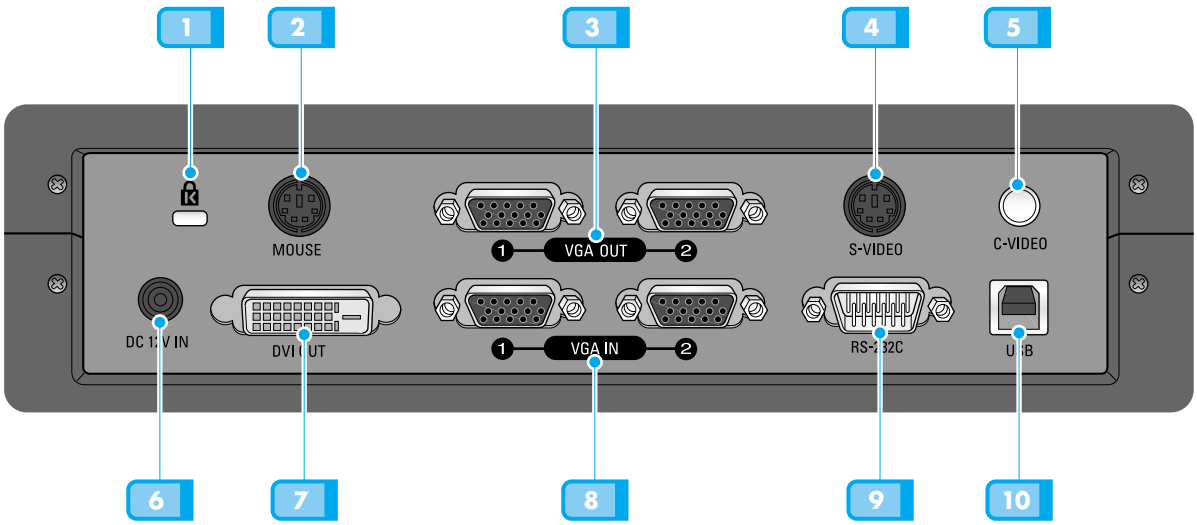
8 ***INT / EXT***
Use this to select internal or external image
INT: to view the image on this product.
EXT: to view the VGA output from another device such as a PC monitor or a projector by connecting it to this product.

9 ***LAMP***
Use this to turn the upper lamp or light box on or off.

10 ***IRIS***
Use this to control the brightness of the image by using the iris.

Name and function of each part

Terminals at the back



1 ***THE KENSINGTON SECURITY SLOT***
Connect Kensington Slim MicroSaver security cable to this slot to attach the presenter to an immovable object.

2 ***MOUSE***
Use this to connect PS/2 Mouse. (See page 17.)

3 ***VGA VIDEO OUTPUT 1,2***
Connect this to the RGB input terminal of a PC monitor or a projector by supplied PC cable.

4 ***S-VIDEO OUTPUT***
This is the video output terminal connecting to a TV that has S-video input terminal.

5 ***TV OUTPUT***
Connect this to the TV input terminal.
Even when the external input menu is selected, only the image on the main unit is displayed on TV output terminal.

6 ***POWER INPUT TERMINAL***
Use this to connect the power cable.
(DC 12V)

7 ***DVI OUTPUT***
Connect this to the monitor or projector by supplied DVI cable.

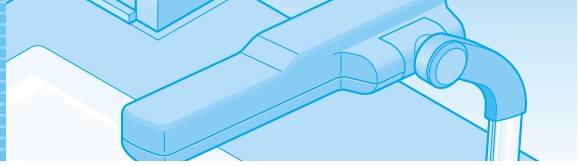
8 ***VGA VIDEO INPUT 1,2***
Connect this to the VGA output terminal of another device by supplied PC cable.
When external input menu is selected, the image is shown through the VGA out terminal.

9 ***RS-232C: COMPUTER CONNECTION TERMINAL***
Use this to connect RS-232C cable.

10 ***USB: COMPUTER CONNECTION TERMINAL***
Use this to connect USB cable when transmitting image by USB port.

Name and function of each part

On the remote controller



1 ***POWER***
Turns power on or off.

2 ***INT/EXT***
Allows to choose the signal inputs to be displayed.

3 ***TXT/IMG***
Controls the sharpness of the output image.
Switches for TEXT mode or IMAGE mode.

4 ***LAMP***
Turns the upper lamps and/or lightbox on or off.

5 ***FOCUS***
Allows to focus on an object.
F: Used to focus on an object which is in the far distance.
N: Used to focus on an object being close.

6 ***RED/BLUE/AWC***
Adjusts the image color.
R +/-: Adjusts the red color.
B +/-: Adjusts the blue color.
AWC: Adjusts color automatically.

7 ***AF***
Use this to adjust the focus automatically.

8 ***NEGA/POSI***
Switches for negative or positive film.

9 ***FREEZE***
Keeps the current image on the screen.

10 ***3X3 MODE***
Switches to 3X3 Multi ON or 3X3 Multi OFF.

11 ***ROTATE***
Use this to rotate the image by 90˚, 180˚, 270˚, 0˚.

12 13 ***WIDE/TELE***
- Reduces the image size.
- Enlarges the image size.

14 ***BRIGHT + / BRIGHT −***
- Increases the brightness.
- Decreases the brightness.

15 ***EXIT***
Stops current function and returns to the normal mode.

16 ***NTSC/PAL***
- Switches Video output mode to NTSC or PAL.

17 ***PRESET***
- SAVE:saves the customized user setting values.
- ACTIVE:activates the preset user settings.

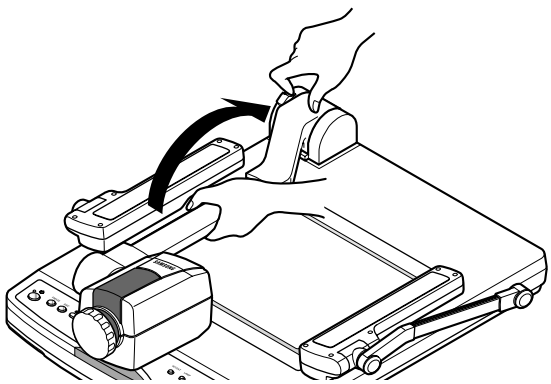
18 ***SAVE/RECALL***
- Saves the projected image into the memory of this unit.
- Recalls the image from the memory.

DIVIDE
Divides the screen to show both the current image and the image recalled from the memory simultaneously on one screen.

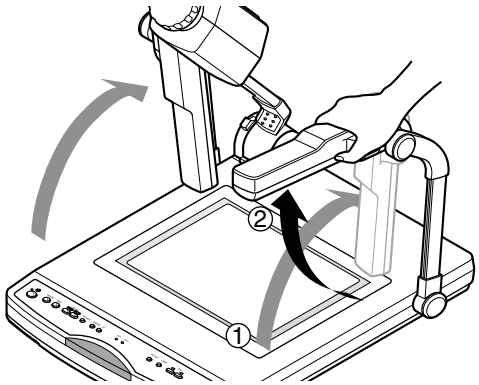
SHIFT
Shifts the recalled image shown in the divided screen from the left to right to show the hidden portion of the image.

Set preparation

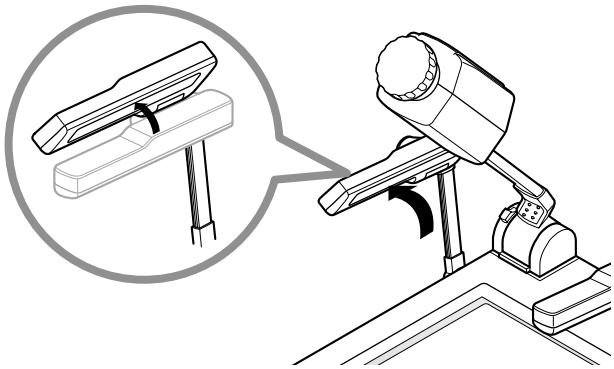
1 Press the main lock button and raise the main support



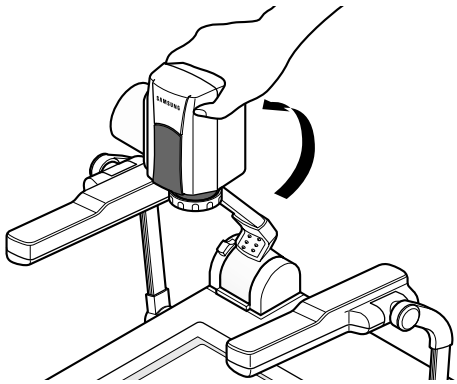
2 Raise the lamp unit until it is convenient for use, and set it to the center of the document plate.



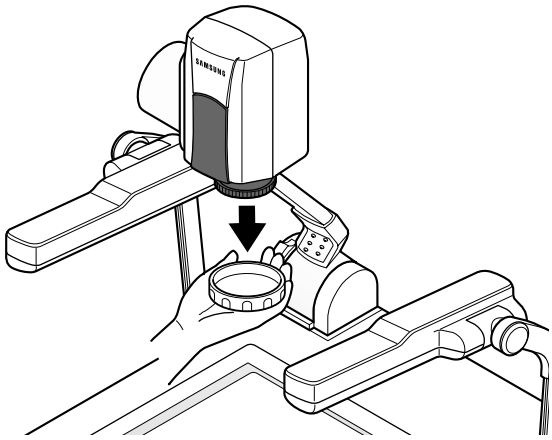
3 Adjust the angle of the lamps properly.



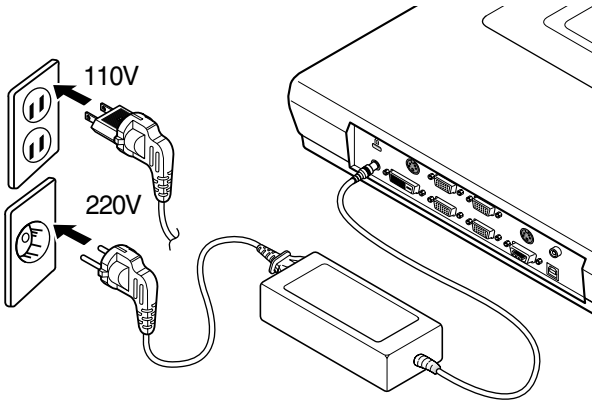
4 Turn the lens area to face downward.



5 Remove the lens cap.

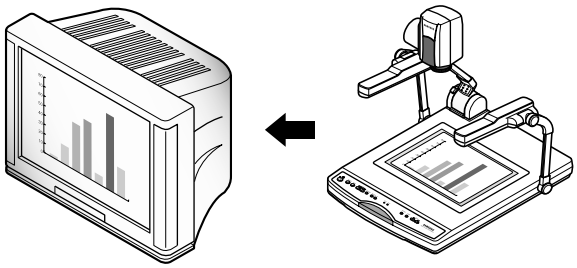


6 Plug the power cord in.



Connecting to output device

PC Monitor, Projector or DVI supporting devices

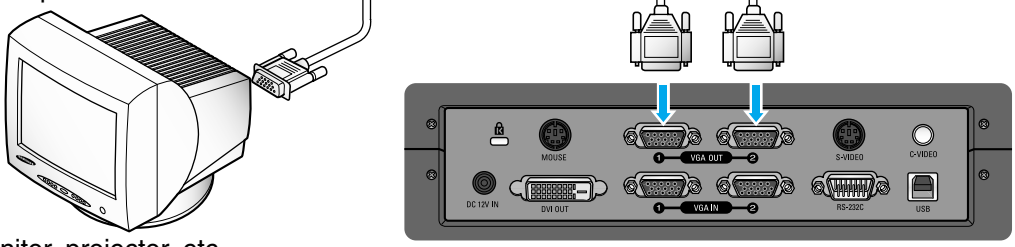


■ Connect a TV, PC monitor, Projector and DVI supporting devices(Monitor or Projector)to this presenter to display the projected images using the appropriate cable.

Connection

Connect to the VGA input terminal

PC monitor cable

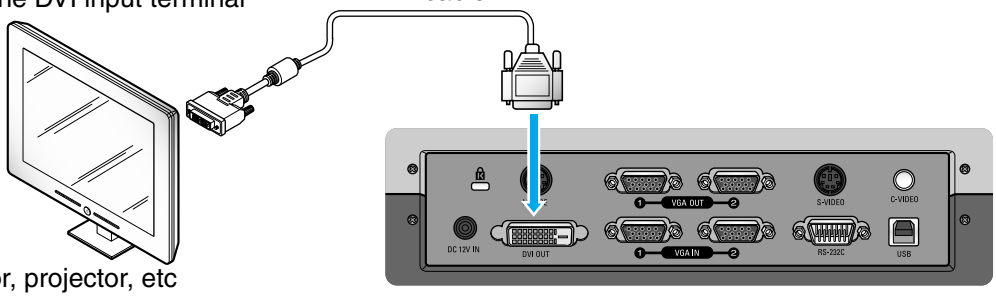


PC monitor, projector, etc

Digital Presenter

Connect to the DVI input terminal

DVI cable

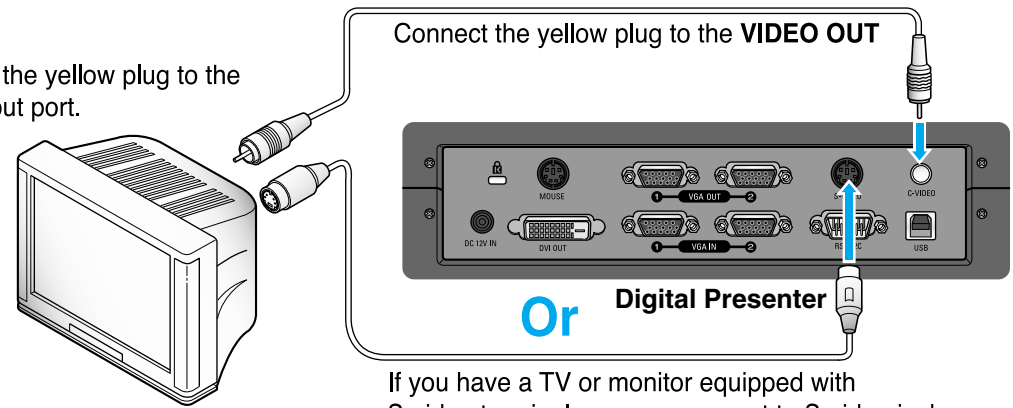


Monitor, projector, etc

Digital Presenter

Connect the yellow plug to the video input port.

Connect the yellow plug to the **VIDEO OUT**



Or

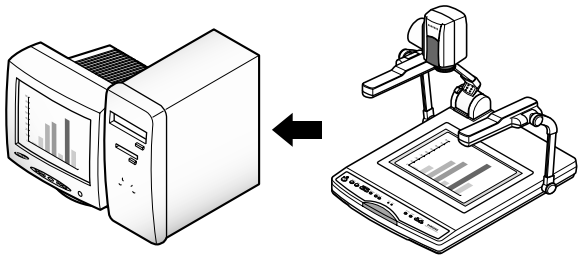
Digital Presenter

If you have a TV or monitor equipped with S-video terminal, you can connect to S-video jack.

NOTE *If you connect to S-video terminal, you may obtain more clear image.*

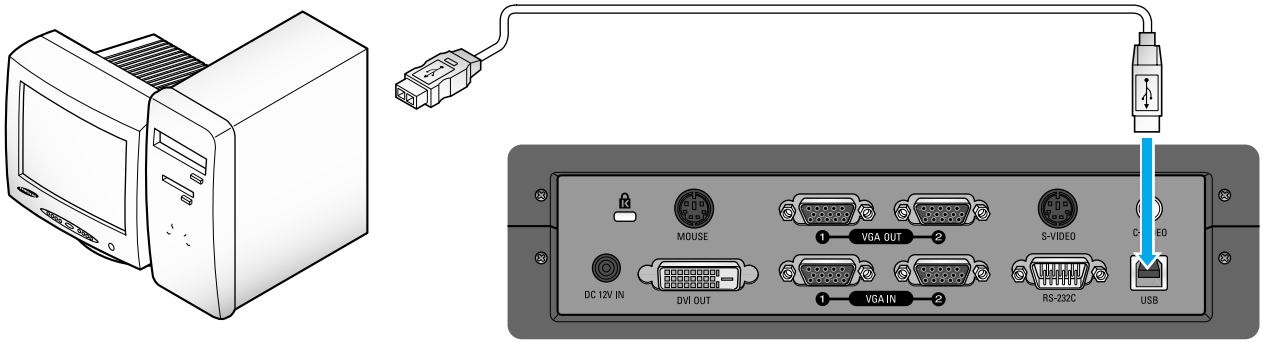
Connecting to output device

Connecting computer



- Connect a desktop PC and the presenter using USB cable and install the supplied program. You can see the projected image on the PC monitor and control the image using the program.
- RS-232C connection is available for advanced user. If you connect a PC with RS-232C cable, you should set up your PC and make your own program to control the projected image on PC. Ask your dealer for further details.

USB connection

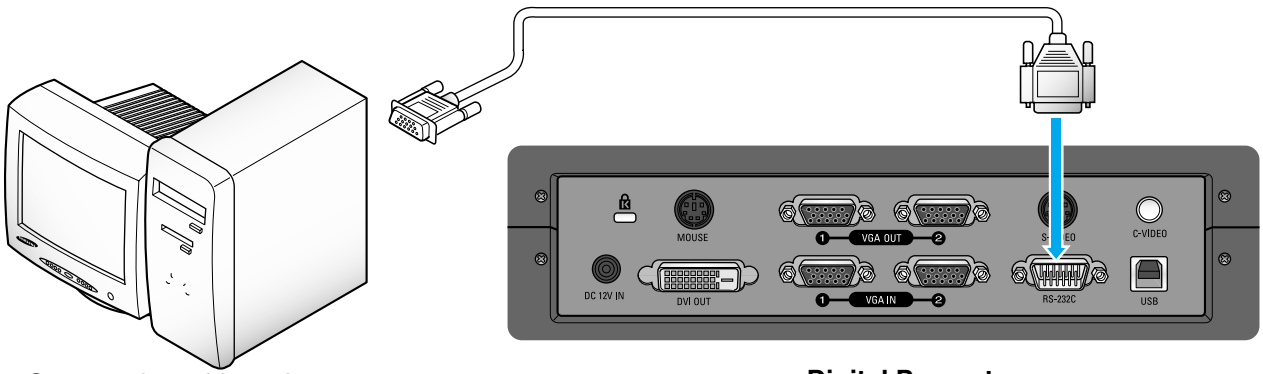


Connect to the USB port on your PC, then install the supplied SDP-900DXA program.

Digital Presenter

CAUTION *We recommend you to connect to USB port which is attached on computer main board. (It can make troubles in extended front-side USB port or USB hub without power in accordance with computers.) Be sure to use the USB cable shorter than 5.0 m.*

RS-232C connection

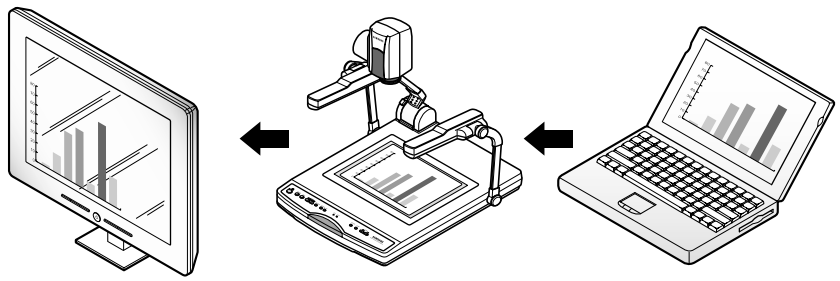


Connect the cable to the RS-232C terminal on your PC.

Digital Presenter

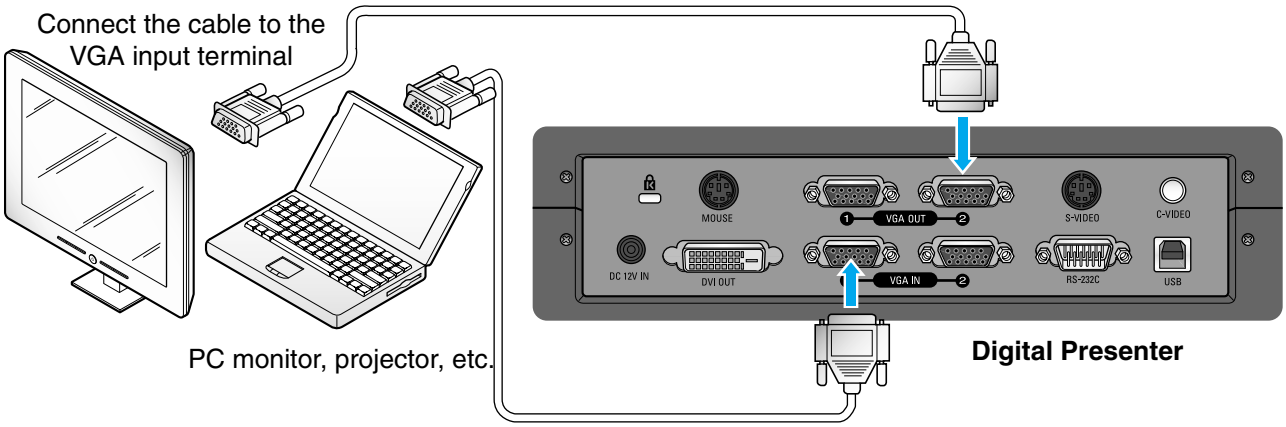
NOTE *RS-232C cable is not provided with the presenter. You can obtain one from your computer dealer.*

Connecting to output device



■ If you connect a computer through VGA IN port, you can receive video signal from the computer.

Connection

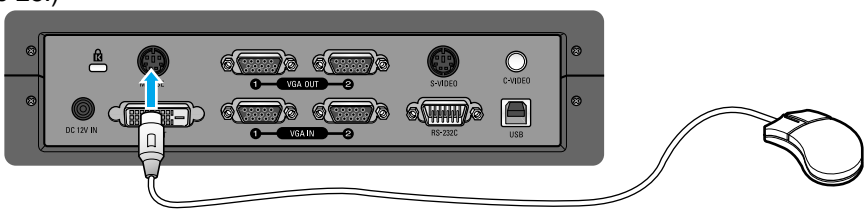


Connect to VGA IN terminal using the VGA cable from the computer. VGA IN terminal is available.

Connect the cable to VGA port on the computer equipped with XGA, SXGA, UXGA graphic card.

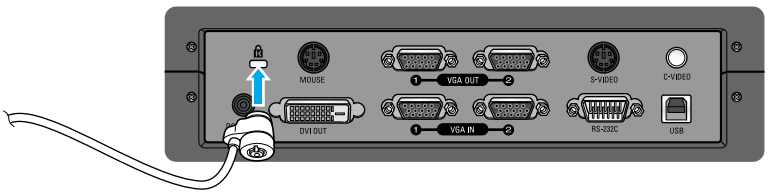
PS/2 Mouse

■ If you connect PS/2 mouse through MOUSE port, you can control various functions of digital presenter. (See page 28.)



Kensington Security Slot

■ Secure your presenter in seconds by wrapping the sleek, strong steel cable around an immovable object, inserting the lock into the Kensington Security Slot, and turning the key.



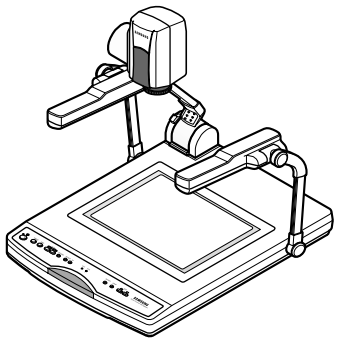
NOTE

The security cable is not provided with the presenter. You can obtain one from your computer dealer.

Using the presenter

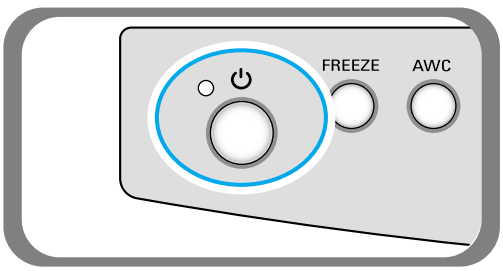
To show the image received from external devices

1 Set up your digital presenter properly.
(See page 15.)

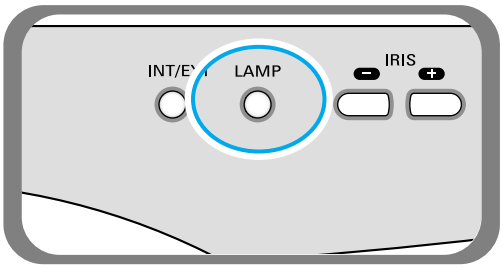


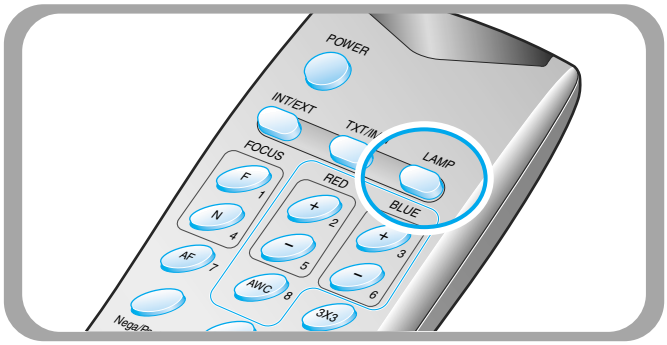
2 Connect the input device from which you want to receive the image and the output device in which you want to show the image.
(See pages 15 through 17.)

3 Turn the power of the input and output device on, and the digital presenter on.



NOTE *When the digital presenter is powered on, the upper lamp turns on.*
To turn it off, press LAMP button of the presenter twice.

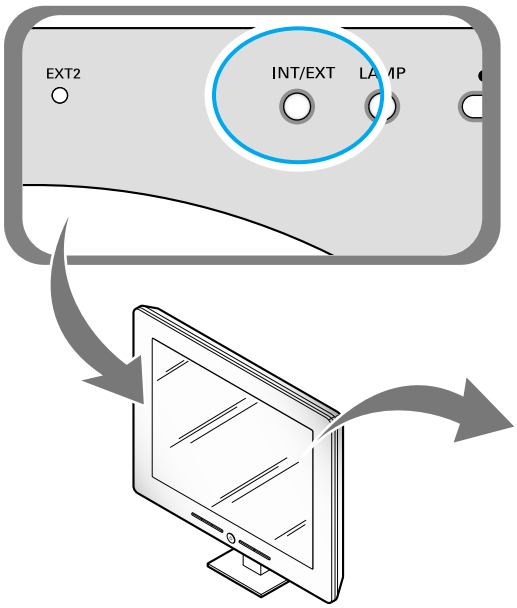


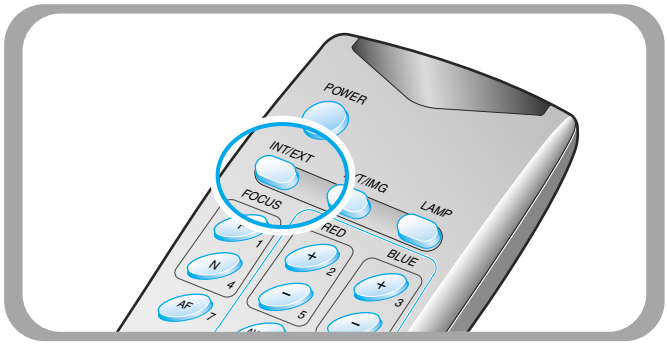


Using the presenter

4

Choose the video source with the **INT/EXT** button of the presenter.





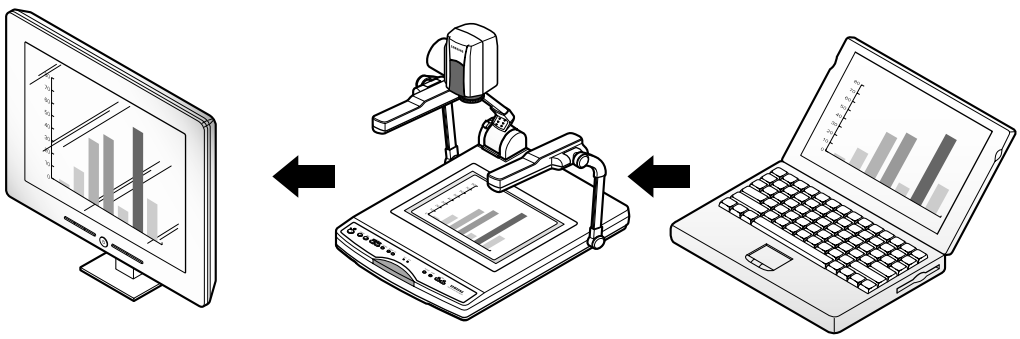
- Each time you press the button, the display shows EXT1 OUT, EXT2 OUT, INT OUT.
- **EXT1 OUT, EXT2 OUT**
  View the image from an external VGA output device through a PC monitor or a projector connected to the digital presenter.
- **INT OUT**
  Choose this mode to show the image through the lens of the digital presenter.

NOTE

- *If Blank Image is displayed, check if the external input device is connected properly.*
- *Although you select INT or EXT1/EXT2, the current status is not displayed.*
- *By DVI port you cannot recieve the image from external device.*

5

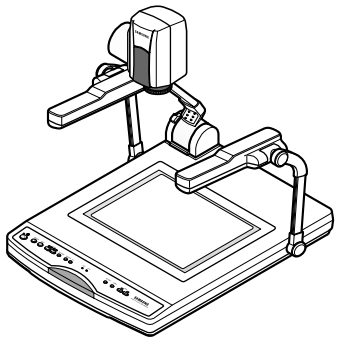
Open the image on the computer. Now you see the image through a PC monitor or a projector.



Using the presenter

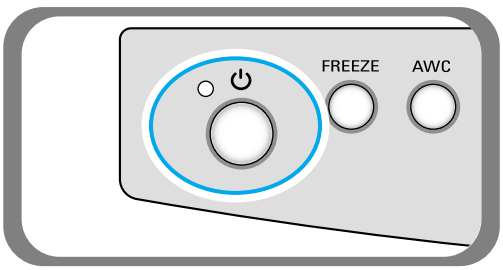
To project an object on the digital presenter

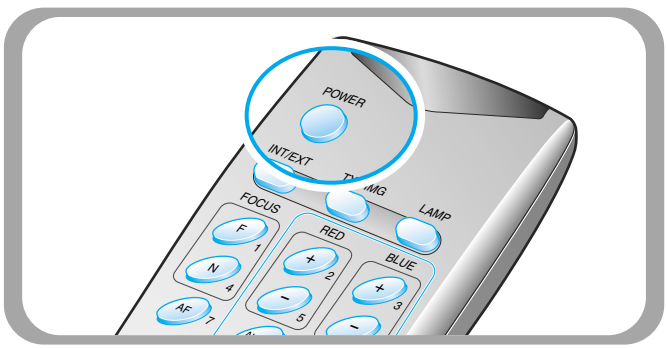
1 Set up your digital presenter properly.
(See page 15.)



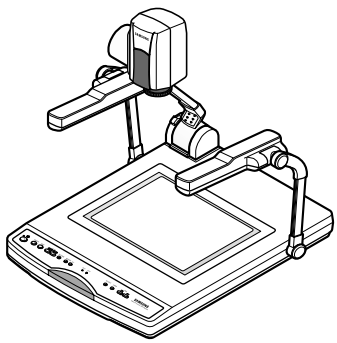
2 Connect the presenter to a PC monitor or projector to display the image.
(See page 15.)

3 Turn the power of the output device and the digital presenter on.





4 Place the object on the document plate, and adjust the head to face the object.

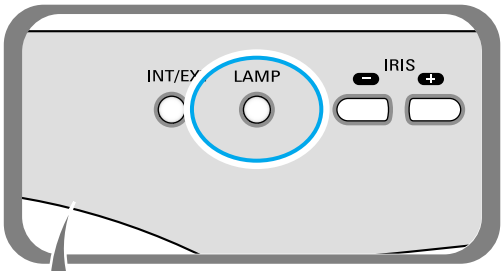


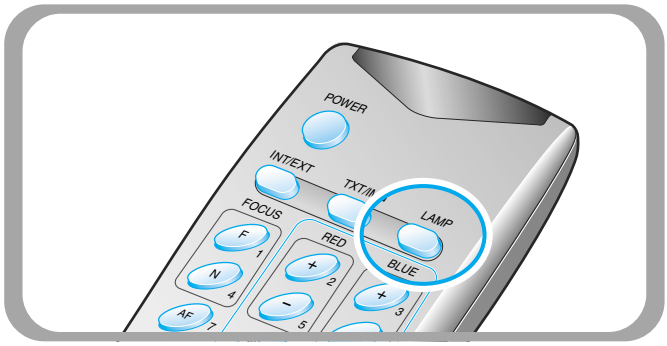
NOTE *If there is no image on the PC monitor or the projector, check if the cable is properly connected and press the INT/EXT button of the presenter to select the input mode to INT OUT.*

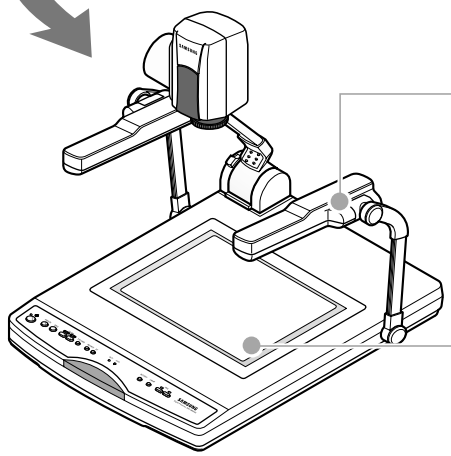
Using the presenter

5

Select a proper lighting source with the LAMP button of the presenter. Each time you press the button, upper lamps on, lightbox on, then all lightings off.







Upper lamps. Use the upper lamps to project paper documents and other materials, and use lightbox lamp to project transparencies.

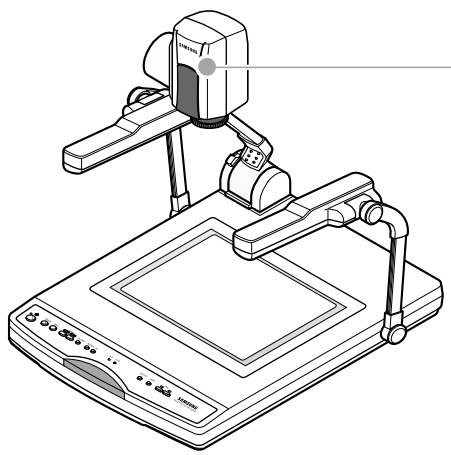
Lightbox.

NOTE

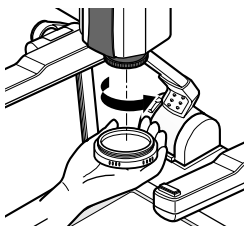
• It wil take two minutes to project on the optimum brightness after turning on presenter. And then you can execute AWC button to adjust the color status.

6

Remove or attach the adapter lens according to the object.



Rotate the lens to remove or attach it.

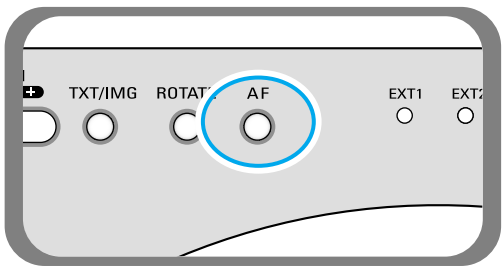


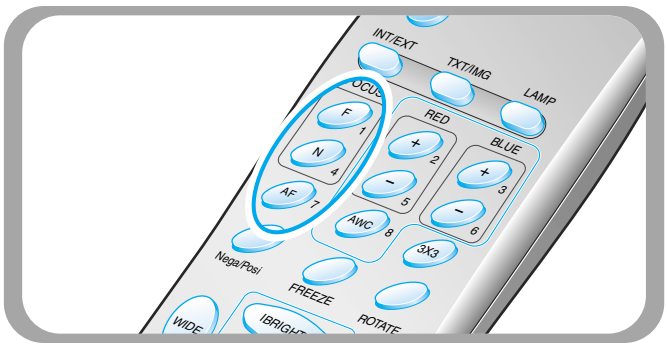
- Remove the adaptor lens in the camera mode. (possible focal length: 1m ~ ∞)
- Attach the adaptor lens to view a material or a document or a film placed on the document plate. (possible focal length: 240mm ~ 365mm)
- Beyond the possible focal length mentioned above, it might be out of focus. So pay attention to the distance between the object and the lens.

Using the presenter

7

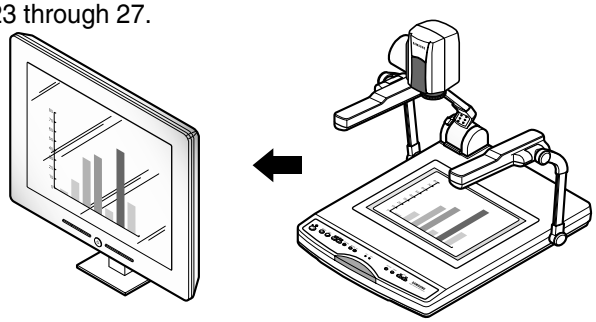
Focus on the object.
- Auto focus control: Press AF button.
- Manual focus control: press [Focus F] or [Focus N] to adjust manually.





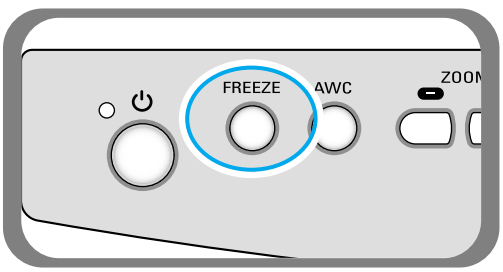
8

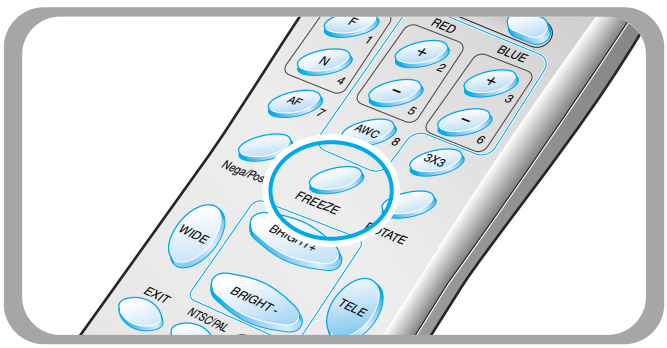
You see the image on the PC monitor or the projector or DVI supporting devices (monitor or projector)
- To use versatile image control features, see pages 23 through 27.



NOTE

To change the object projected during presentation, freeze the image on the screen by using FREEZE button of the presenter and change it.
To release the FREEZE mode, press FREEZE button again or EXIT button on the remote controller.





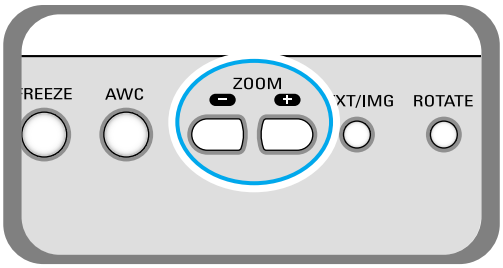
Adjusting your image

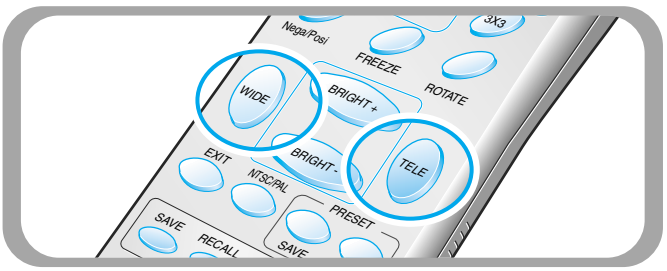
Use the control buttons on the remote controller or on the control panel of the presenter to adjust the projected image. Some of the main features are described below:

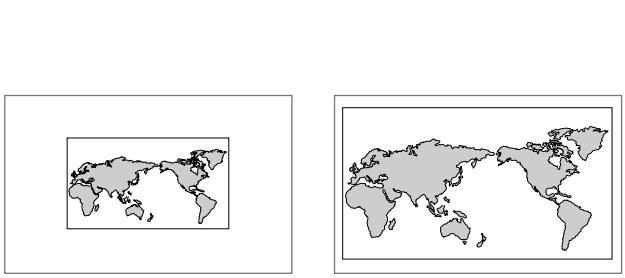
Adjusting image size

▼ Press **WIDE** or **TELE** button on the remote controller to change the image size displayed on the screen.

▼ You can also use **ZOOM** or **ZOOM** button of the presenter to achieve the same result.



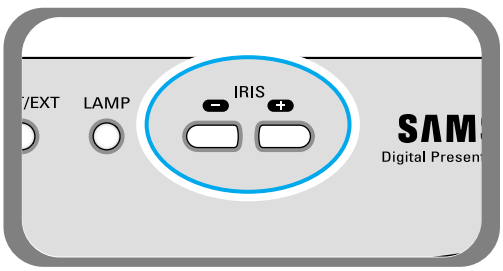


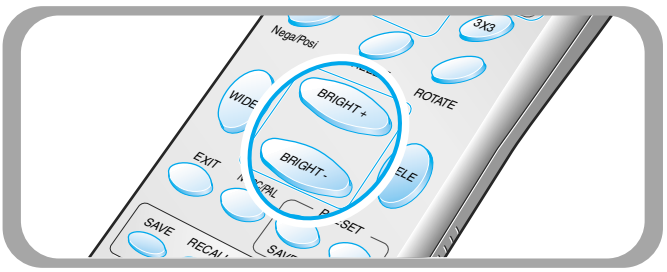


Adjusting brightness

▼ Press **IRIS** button on the control panel or **IRIS +** button on the remote controller to lighten the overall image.

▼ Press **IRIS** button on the control panel or **IRIS -** button on the remote controller to darken the overall image.



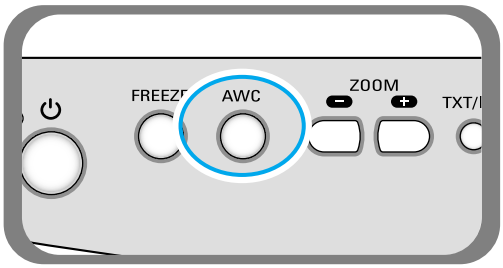


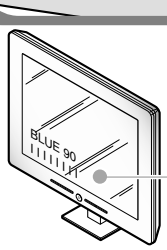
Adjusting your image

Adjusting image color

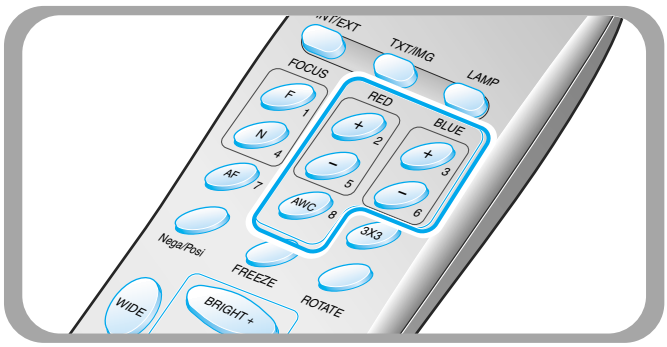
▼ For automatic color adjustment, press **AWC** button.

▼ If you want fine level adjustment, press **BLUE + / -** or **RED + / -** button on the remote controller to increase or decrease blue or red color factor manually.





The color level will be displayed.



Hint:
To obtain the best result, put the camera lens facing the white paper and press AWC button.

Positive and negative switching

◀ Press **NEGA/POSI** button.
Each time you press the button, POSI or NEGA appears alternately on the screen. Set to POSI to see normal object and set to NEGA to see negative film.

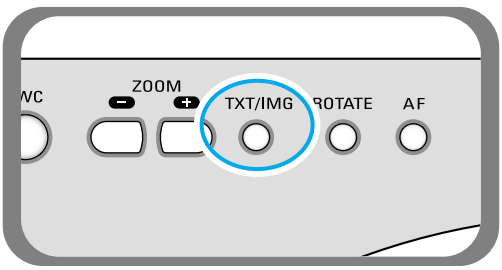
Negative

Positive

Image sharpness control

▼ Press **TXT/IMG** button to control the sharpness of the output image of this product.

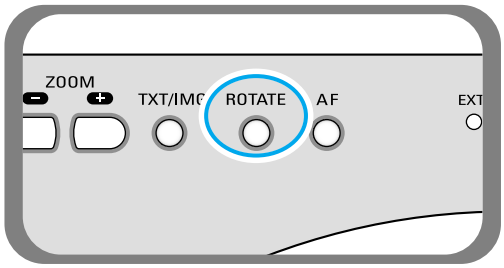
- **TXT Mode**: For a material mostly with words.
- **IMG Mode**: For a material with many pictures or colors.

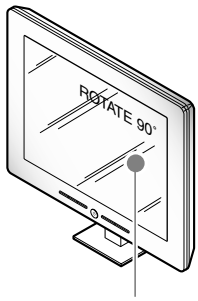


Adjusting your image

Image rotate control

▼ For image rotation, press **ROTATE** button.
To rotate the image by 90˚, 180˚, 270˚, 0˚, press ROTATE button.

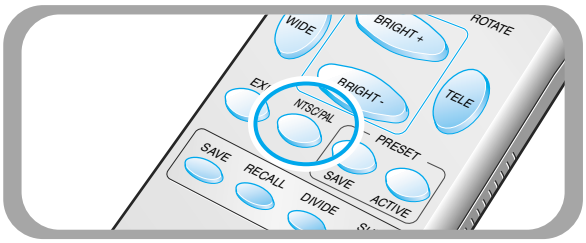




The rotate image status will be displayed.

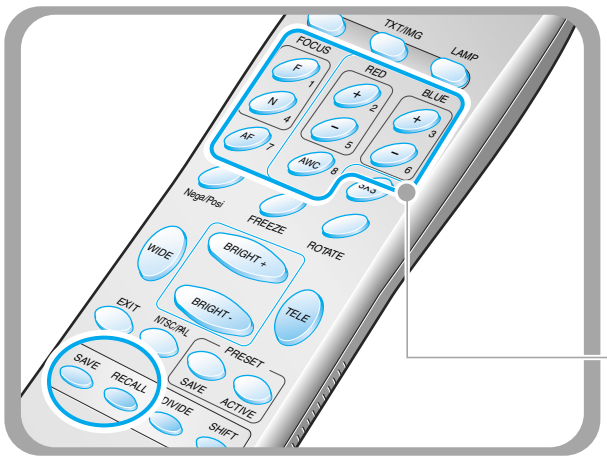
NTSC/PAL switching

■ Switches Video output mode to NTSC or PAL.



Saving image in memory

■ You can save the image up to 8 frames into your digital presenter's memory. After saving, you will be able to recall it.



◀ To save the image into the memory, press **SAVE** button and specify the memory location within 4 seconds using the number keys from 1 through 8.

◀ If you want to recall the saved image from memory, press **RECALL** button and press the memory location number within 4 seconds. If you press and hold down **RECALL** button, all images saved in memory are displayed one by one.

◀ If you want to exit from the recall mode, press **EXIT** button.

The memory location numbers are printed on the right side of these buttons. For example, if you want to save the image into memory location 7, press **SAVE** then press **AF** button printed **7** at right side.

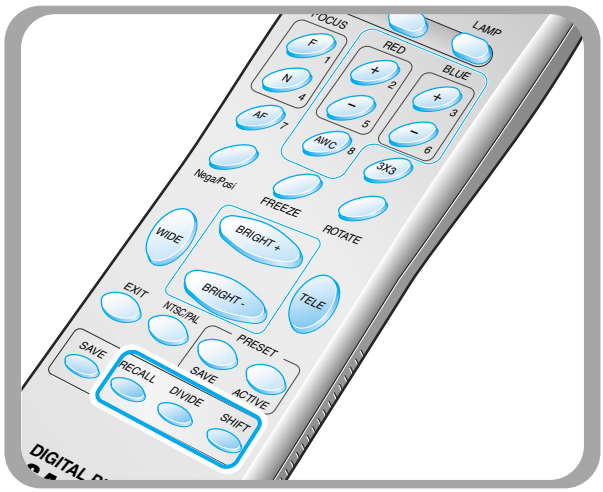
NOTE

- *If you turn the power off, all the saved images will be lost.*
- *The image is not saved in the Rotate or Freeze status.*
- *Digital zoom picture is not saved, therefore when you press SAVE button under digital zoom mode, the digital presenter automatically returns to the maximum optical zoom state.*

Adjusting your image

Screen 2 divide and image shift

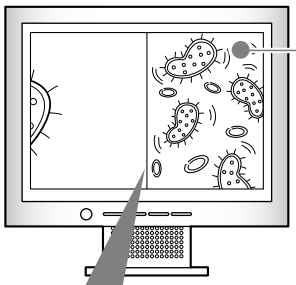
■ You can see both the image of an object currently projected and the image saved in memory simultaneously on one screen.



◀ Press **DIVIDE** button and press the memory location number within 4 seconds to recall the image you want to see.

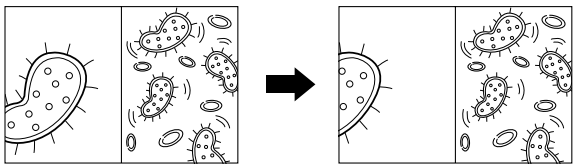
◀ To cancel this mode and return to normal mode, press **EXIT** button.

◀ The digital zoom is not available in **DIVIDE** mode, therefore when you select **DIVIDE** mode under digital zoom mode, the digital presenter automatically returns the right live picture to the maximum optical zoom state.



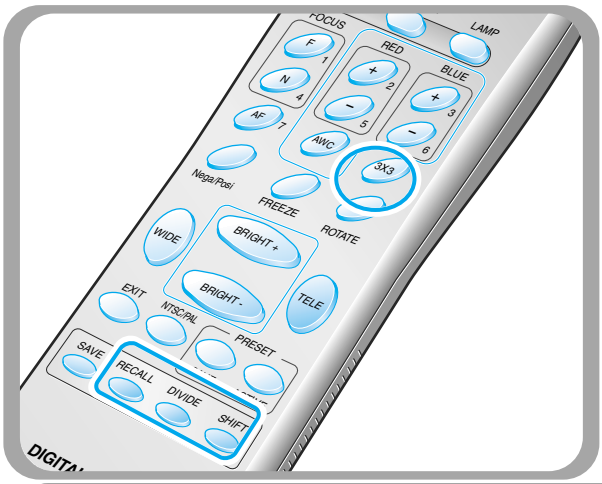
You can see the image of an object currently projected at right side.

The recalled image from memory appears at left side. Press **SHIFT** button to shift the image from right to left. Each time you press the button, a third of the image will be moved from right to left.



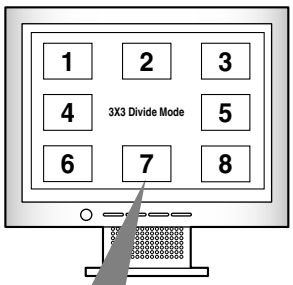
3x3 Multi-Screen

■ You can see all the images saved in memory simultaneously on one screen and choose one to display it.

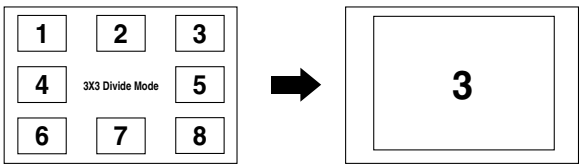


◀ Press **3x3** button for 2 seconds or more, then all the images saved in memory are displayed on the screen.

◀ To cancel this mode and return to normal mode, press **EXIT** button.



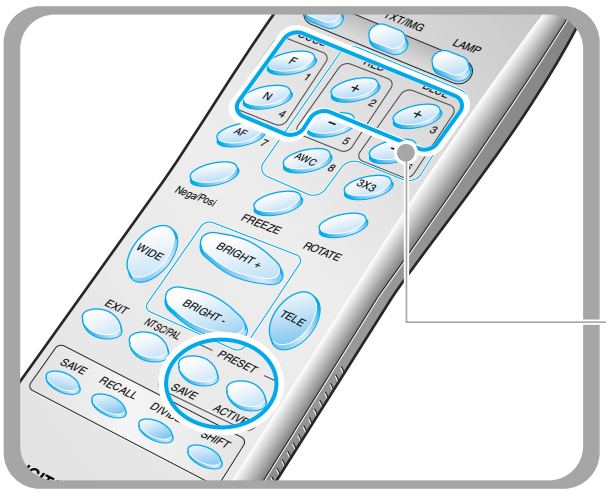
When you want to see one of them, press the number button to recall it.
For example, if you want to see the image in memory location 3, press **BLUE +** button and the image is displayed on the screen.



Adjusting your image

Saving custom user setting

■ After you adjust feature value, you can save the value for next time use. You can save up to 4 different custom user settings. (You can save the setting on the Zoom, Focus, Iris, Lamp state and Color level buttons.)



◀ To save the current value, press **SAVE** button and specify the memory location within 4 seconds using the number keys from 1 through 4.

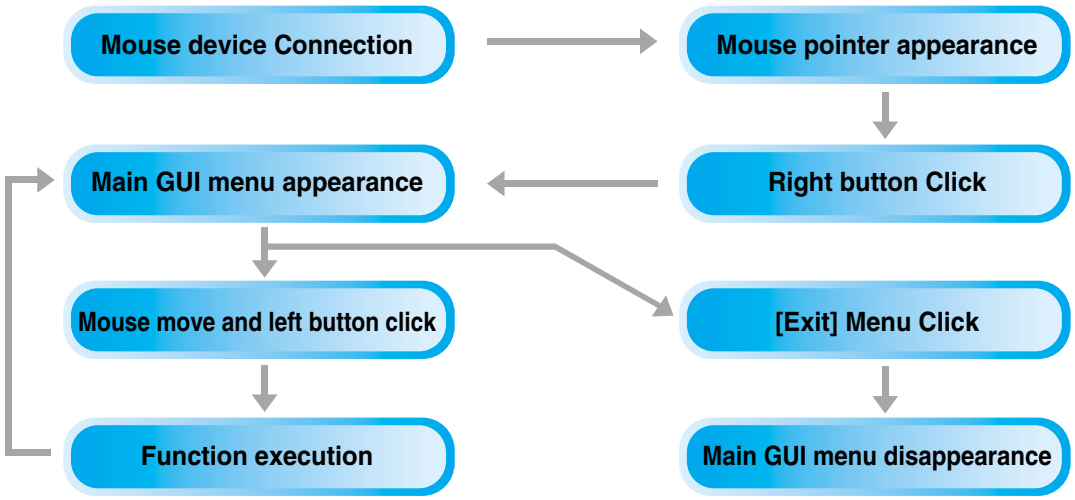
◀ To recall your custom setting, press the **ACTIVE** button and press the memory location number within 4 seconds.

The memory location numbers are printed on the right side of these buttons, For example, if you want to save the feature into memory location 4, press **SAVE** then press **FOCUS N** button printed 4 at right side.

NOTE *You can not save the setting on the FREEZE, RECALL, DIVIDE, SHIFT and ROTATE functions.*

Adjusting your image with GUI

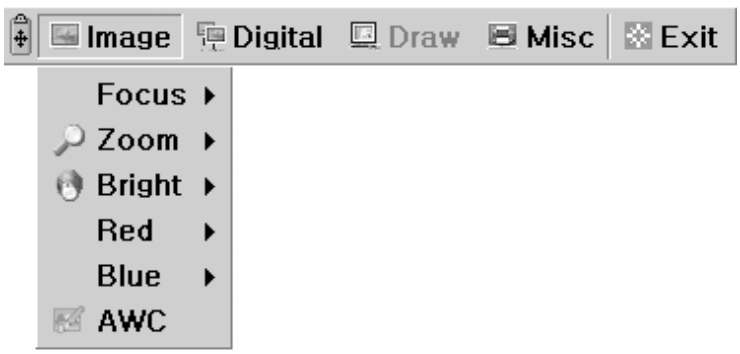
■ The SDP-900DXA supports GUI menu system to control various function of digital presenter with mouse operation.
To use GUI menu system, first of all, mouse device (PS/2 type) must be connected to mouse control terminal, if it is connected with success, mouse pointer will be appeared on the screen.
And then, click the right mouse button, GUI main menu is appeared on the screen, and GUI menu system is activated.
When [Exit] menu is clicked, GUI main menu disappears and only the mouse pointer remains displayed.



Menu and Functions

1 Image section

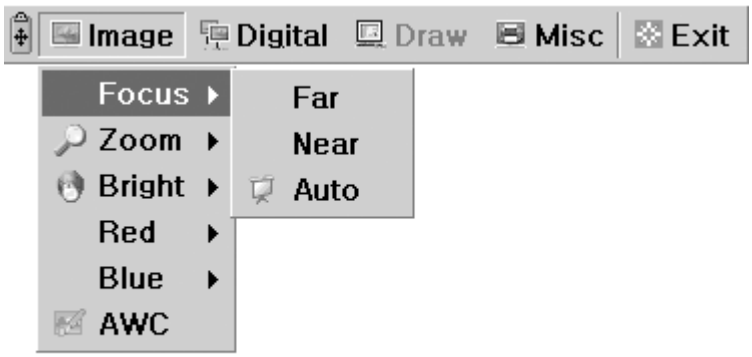
Image menu deals with various adjustment functions of on-screen image.



Adjusting your image with GUI

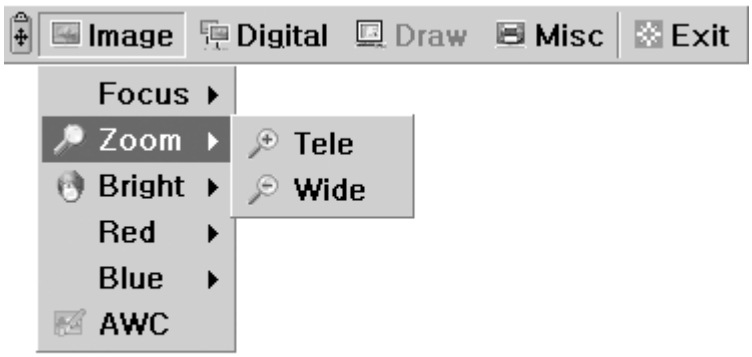
■ Focus

Allow to focus an object in the far / near distance, or automatically.
When holding down [Far]/[Near] menu with the left mouse button, focus is activated.
Click [Auto] menu to work auto focus function.



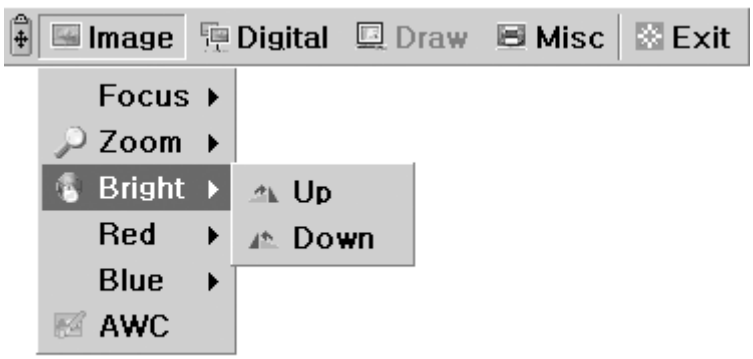
■ Zoom

Allow to change the image size.
When holding down [Tele]/[Wide] menu with the left mouse button, zoom is activated.



■ Bright

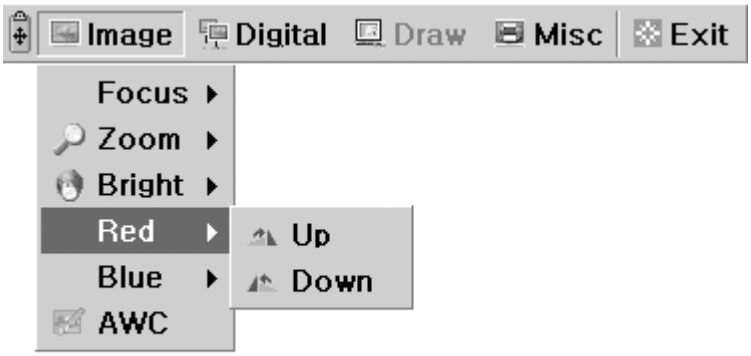
Allow to change IRIS to increase or decrease the brightness.
When holding down [Up]/[Down] menu with the left mouse button, lens iris is activated.

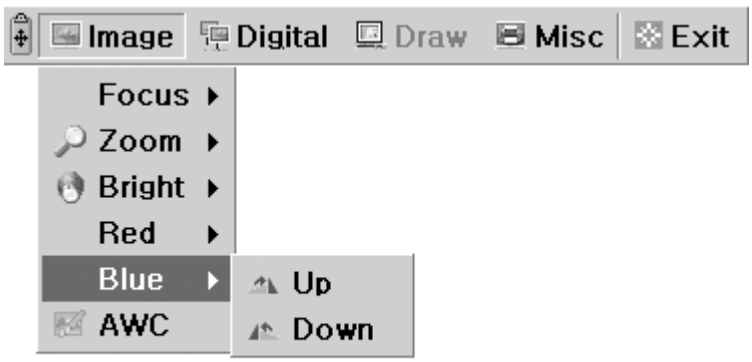


Adjusting your image with GUI

■ Red / Blue

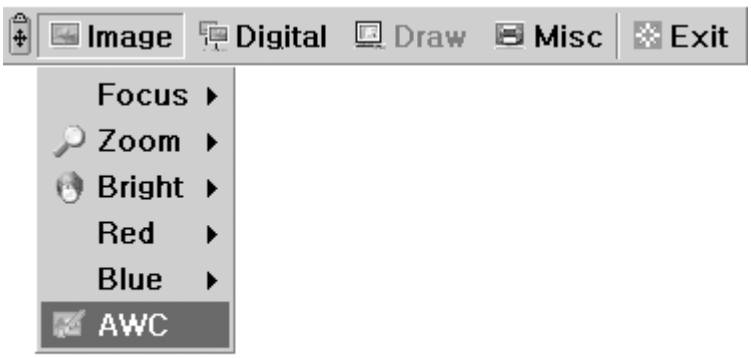
Allow to adjust image color through the red/blue gain control
When holding down [Up]/[Down] menu with the left mouse button, red/blue gain control is activated.





■ AWC

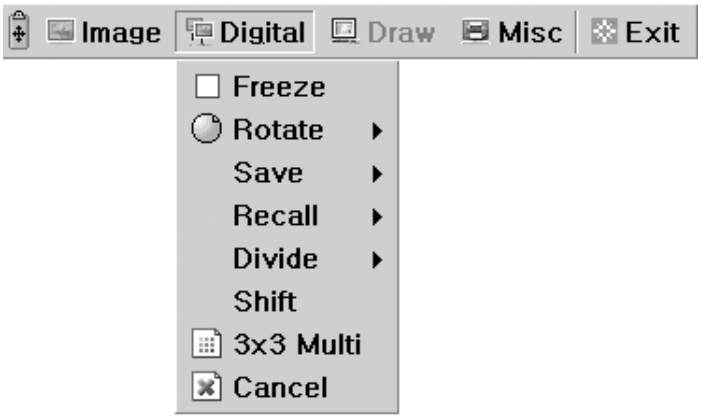
Allow to adjust image color automatically through automatic white balance control
When you click [AWC] menu with the left mouse button, AWC function is executed once.



Adjusting your image with GUI

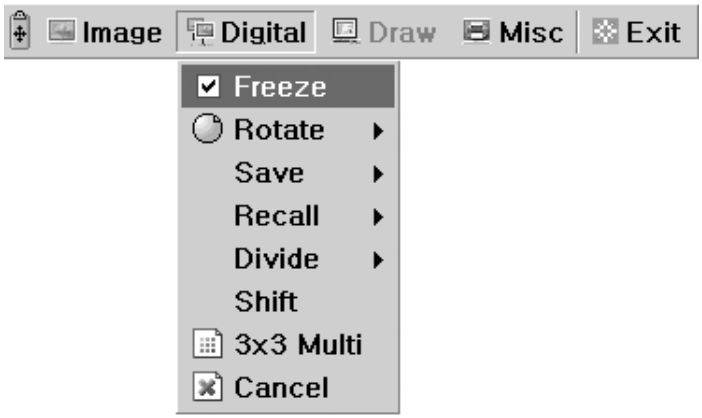
2 Digital section

Digital menu deals with various digital image processing functions.



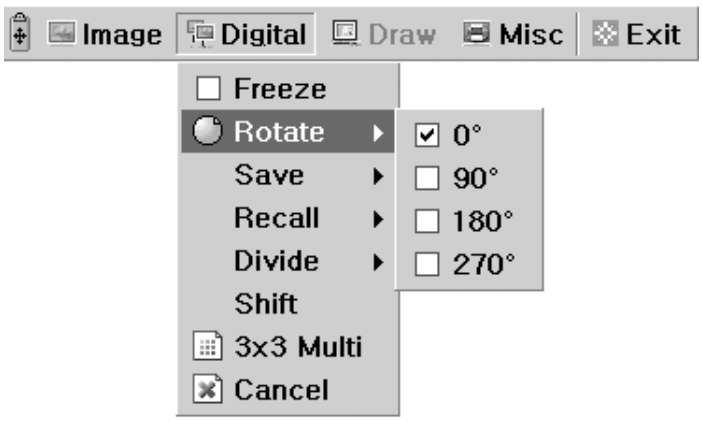
■ Freeze

Allow to keep the current image on the screen. Click[Freeze] menu with the left mouse button, freeze mode is activated and [Freeze] menu turns checked state. To release freeze mode, click [freeze] menu again or click [Cancel] menu with the left mouse button (and then [Freeze] menu turns unchecked state).



■ Rotate

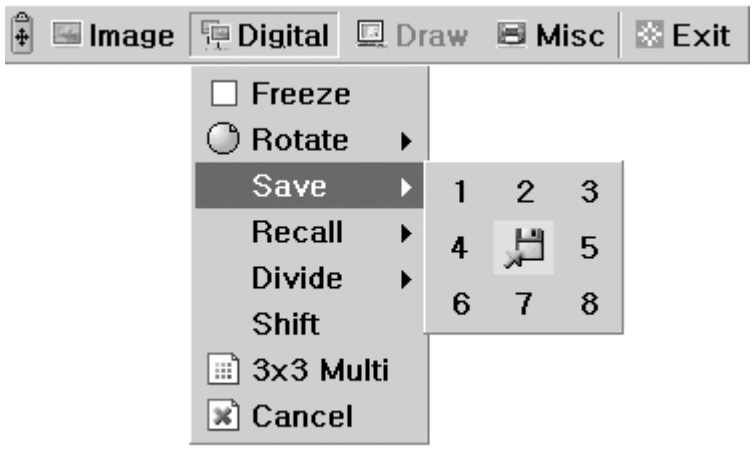
Allow to rotate the image by 0˚(Off), 90°, 180°, 270°. Click [0°/90°/180°/270°] menu with the left mouse button, image is rotated by user's request and menu turns checked state following current status of image.

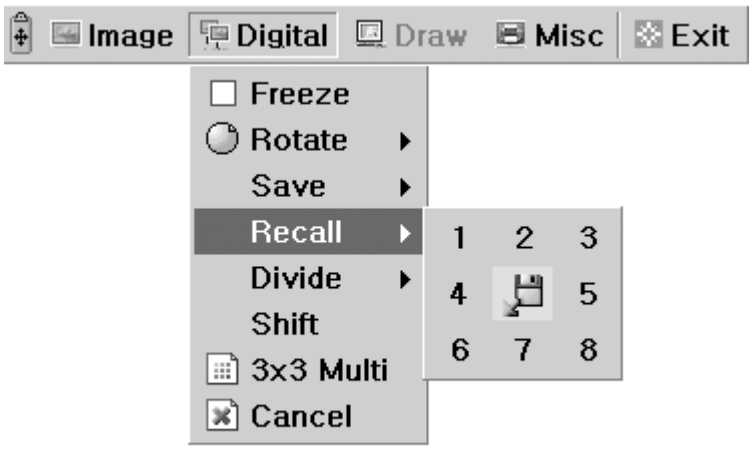


Adjusting your image with GUI

■ Save / Recall

Allow to save the projected image into the memory of digital presenter or recall the image from the memory. To save / recall the image with the proper save number, Click [numbers] menu with the left mouse button, current image is saved into or recalled from memory.

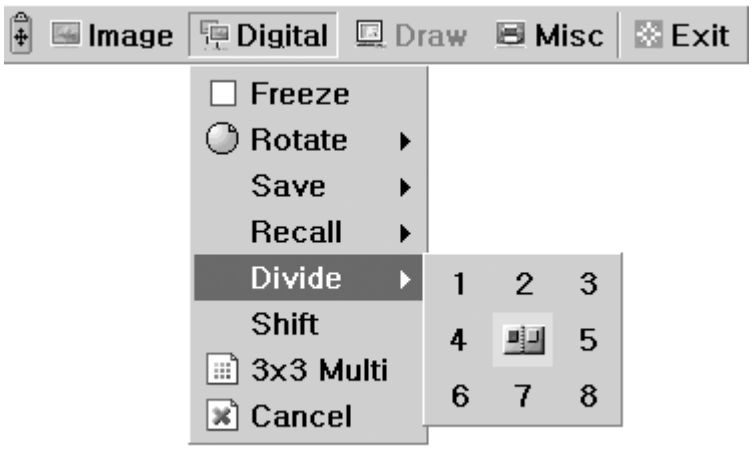




Adjusting your image with GUI

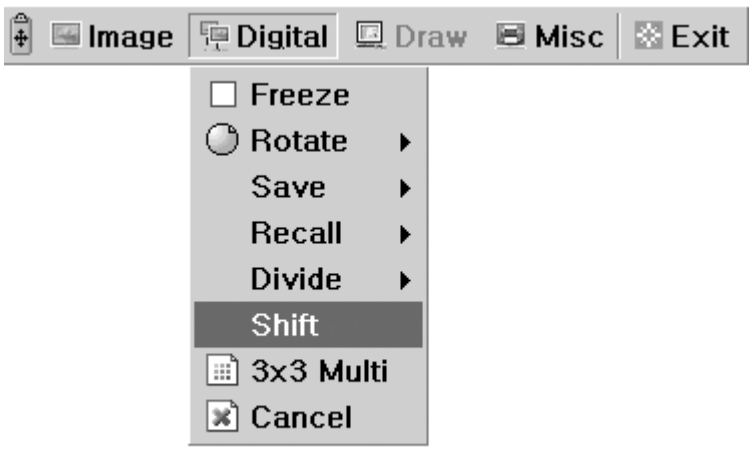
■ Divide

Allow to divide the screen to show both of the current image and the image recalled from the memory simultaneously on one screen.
Click [numbers] menu with the left mouse button, screen is divided and selected number of the image is recalled from memory.



■ Shift

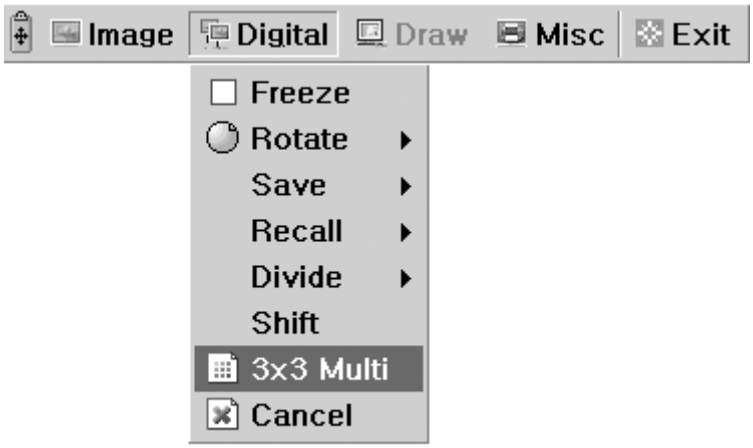
Allow to shift the recalled image shown in the divided screen to show the hidden portion of the image.
Click[Shift] menu with the left mouse button, image is shifted from right to left step by step on each request in the divide mode.



Adjusting your image with GUI

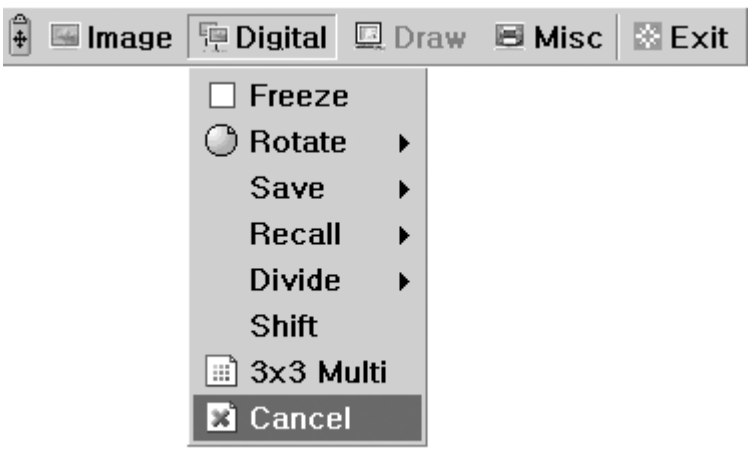
■ 3x3 Multi

Allow to see all the images in the memory (up to 8 frames) on one screen.
Click [3x3 Multi] menu with the left mouse button, 9 divide mode is activated and
GUI menu disappeared. If you click the image number on screen, selected image will be expanded to full screen and GUI menu is appeared on the screen.
To Release 3x3 Multi mode, click the center image.



■ Cancel

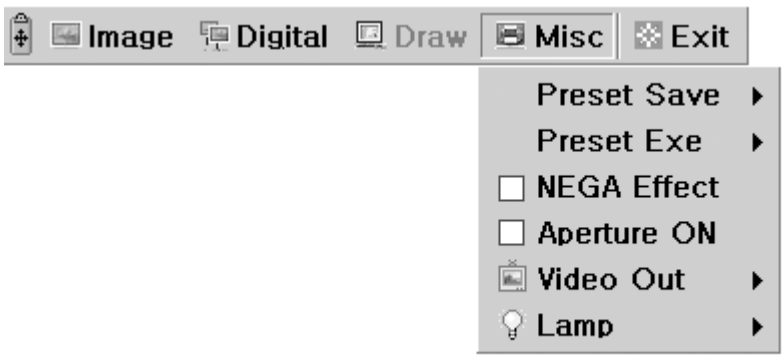
Allow to stop the current function and return to normal mode.
Click [Cancel] menu with the left mouse button, all digital function is released.



Adjusting your image with GUI

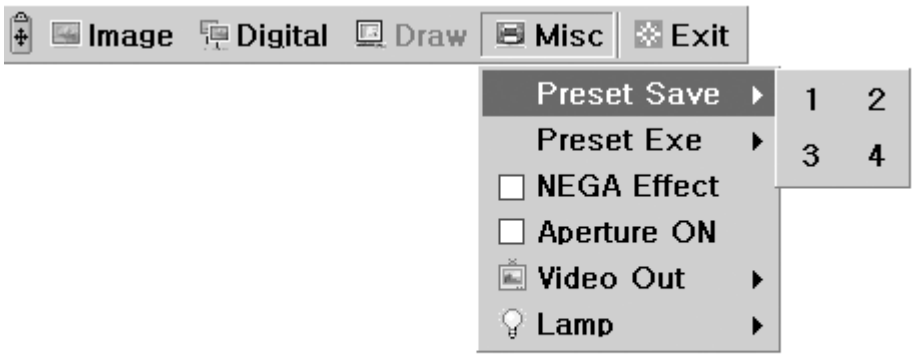
3 Miscellaneous section

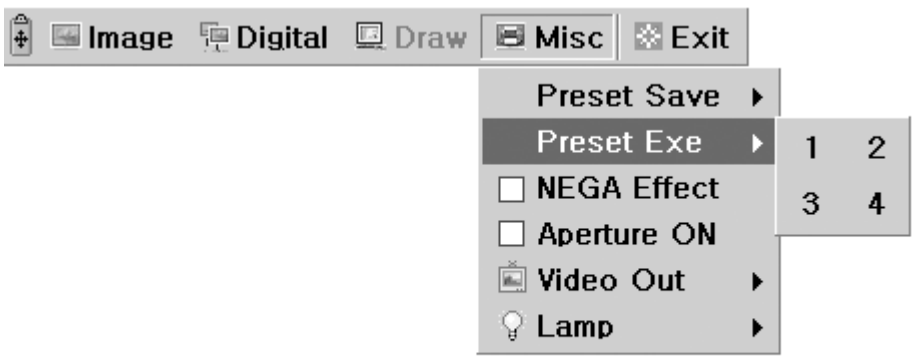
Misc menu deals with miscellaneous function of digital presenter.



■ Preset Save / Exe

Allow to save the customized user setting values or to activate the preset user setting.
Click [numbers] menu with the left mouse button, current setting value is saved to flash ROM or load setting value from flash ROM.

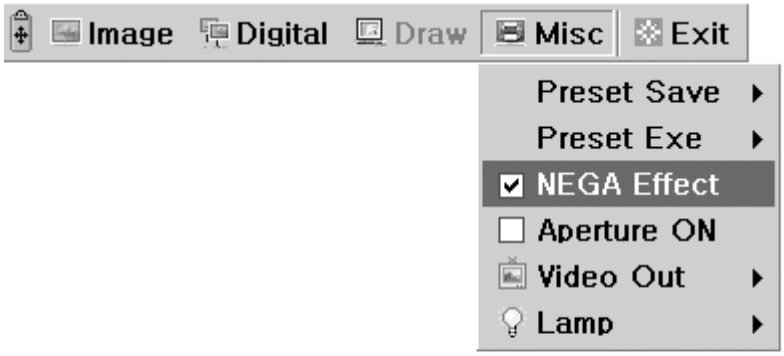




Adjusting your image with GUI

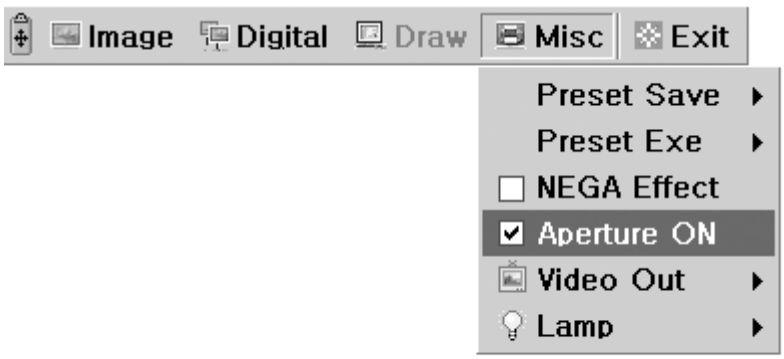
■ NEGA Effect

Allow to switch for negative / positive image (default : positive). Click [NEGA Effect] menu with the left mouse button, current image turns negative image and menu turns checked state. To return positive image, click [NEGA Effect] menu again (and then menu turns unchecked state).



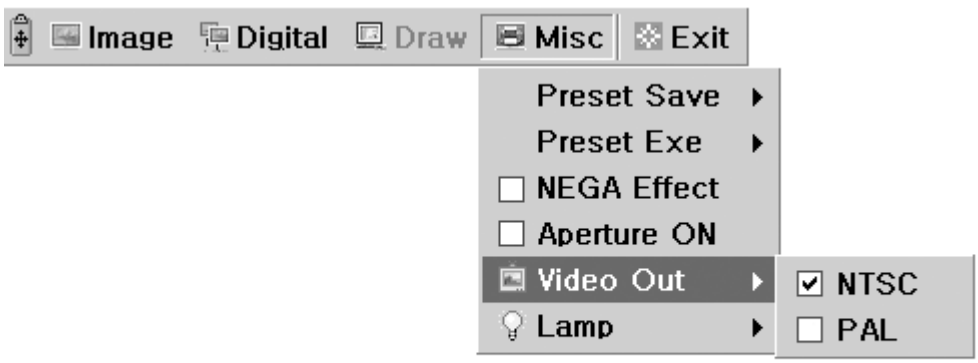
■ Aperture

Allow to control the sharpness of the output image (default : On). Click [Aperture] menu with the left mouse button to turn on/off aperture mode. (Image mode / Text mode)



■ Video Out

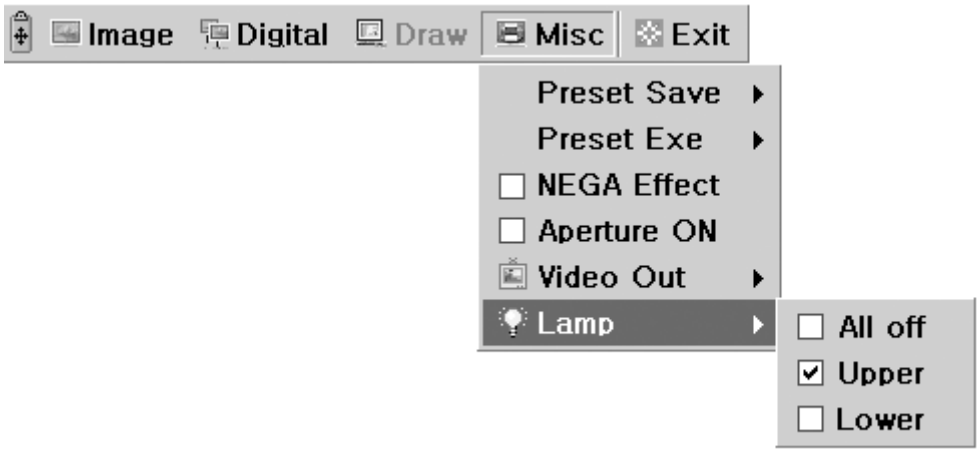
Allow to switches video output mode to NTSC or PAL.
Click [NTSC/PAL] menu with the left mouse button, video mode is switched to current value.



Adjusting your image with GUI

■ Lamp

Allow to turn the upper lamps or lightbox on or off.
Click [All off/Upper/Lower] menu with the left mouse button, lamp mode is switched to current value.



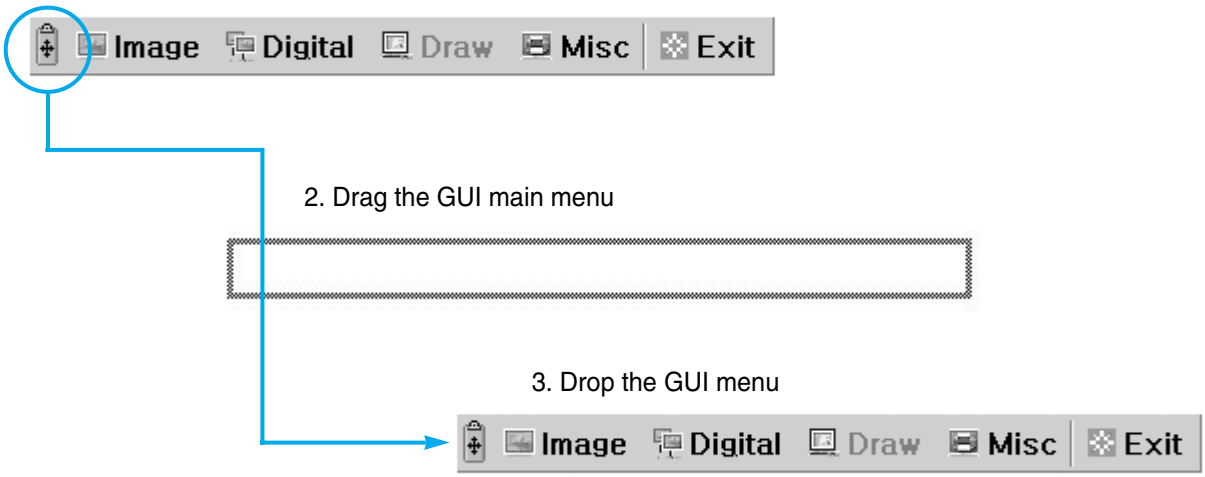
4 Exit section

GUI main menu disappears and only the mouse pointer remains displayed.

■ Tips : Drag and Drop Function

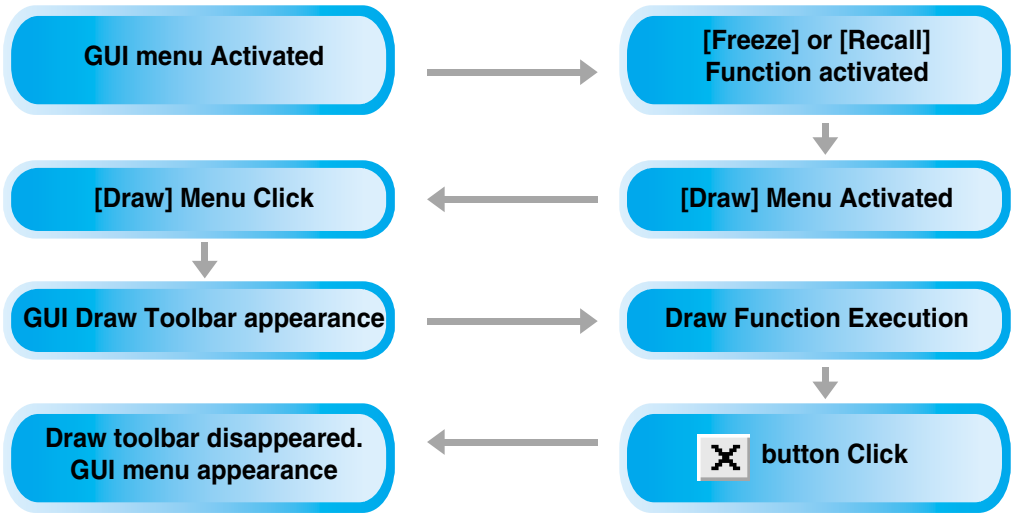
GUI main menu can take any position of screen using Drag and Drop.
First of all, click the moving point of main menu, and then drag and drop to any position of screen where you want.

1. Click the moving point image



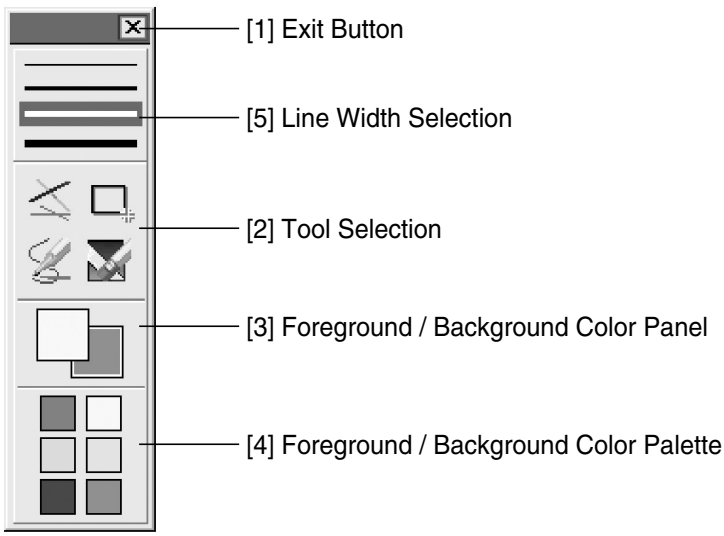
Changing your image with Draw

■ SDP-900DXA supports to GUI Drawing system to draw straight lines, freehand lines, rectangular on the screen with mouse operation.
To use GUI Drawing system, first of all, GUI menu system and [Freeze] or [Recall] function must be activated. Then Draw menu is now being activated. (See page 28)
When [Draw] menu is clicked, GUI Draw toolbar is appeared on the screen and GUI main menu disappeared.



NOTE

Using GUI Drawing system, GUI menu system and [Freeze] or [Recall] function must be activated first. If you want to exit from the GUI Drawing mode, click the [Exit] Menu button, or press EXIT button in remote controller, or press FREEZE button on the main control panel / FREEZE button in remote controller when Drawing mode was activated from FREEZE function.


[1] Exit Button
[5] Line Width Selection
[2] Tool Selection
[3] Foreground / Background Color Panel
[4] Foreground / Background Color Palette

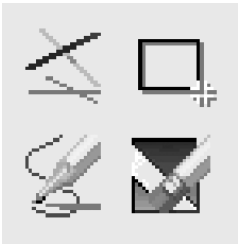
Changing your image with Draw

1 Exit Button

Use the Exit button (✕) to exit GUI Drawing system to normal mode, or clear all the user's images on the full screen.

2 Tool Selection

Use the Line Width Selection to set the line width to between 1 and 4 pixels.



■ Drawing the single line

To draw a single line, Click the single line icon and then,
1) Position the cursor on the screen where you want the line to start.
2) Press and hold the left/right mouse button.
3) Drag the mouse.
4) To end the line, release the mouse button. SDP-900DXA creates the line.

■ Drawing the rectangular

To create a rectangular, Click the rectangular icon and then,
1) Place the cursor at a corner of the area you want to select.
2) Click and drag the mouse until the selection is the size you want.
3) Release the mouse button.

■ Drawing the freehand line

To create a freehand line, Click the freehand line icon and then,
1) Position the cursor on the image where you want the line to begin.
2) Press and hold the left/right mouse button.
3) Drag the mouse on the path you want the line to take.
4) Release the mouse button.

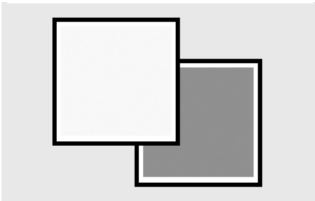
■ Eraser Tool

1) Click the Eraser tool icon and then the cursor changes to the erasing rectangular.
2) Move the cursor over the line and click to delete the line.

Changing your image with Draw

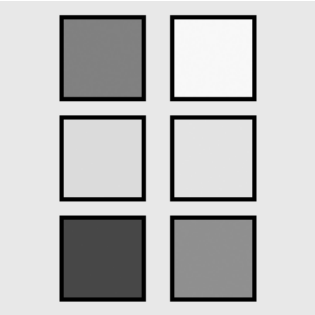
3 Foreground / Background Color Panel

There are two active colors in GUI Drawing System, the foreground (left mouse click) and background(right mouse click) colors.
You can change the brush colors by selecting new foreground and background solid colors using the Color Palette.



4 Foreground / Background Color Palette

Use the Color Palette to select the colors that you want to draw the line.
Move the cursor over the available colors panel. Click left button to select a foreground color, click right button to select a background color. The two boxes above the Color Panel display the respective colors.
There are six colors to be selected, red, yellow, green, cyan, blue and magenta.

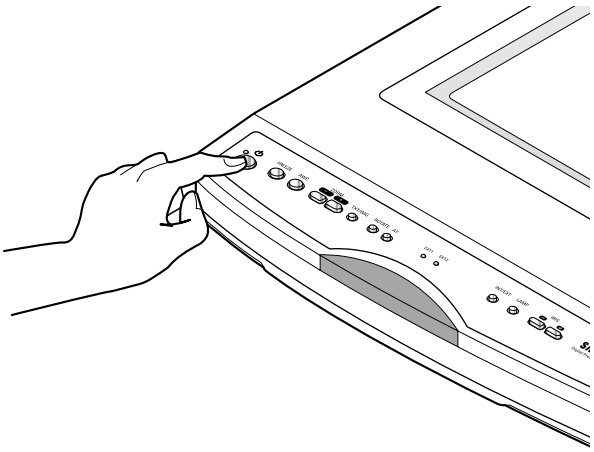


5 Line Width Selection

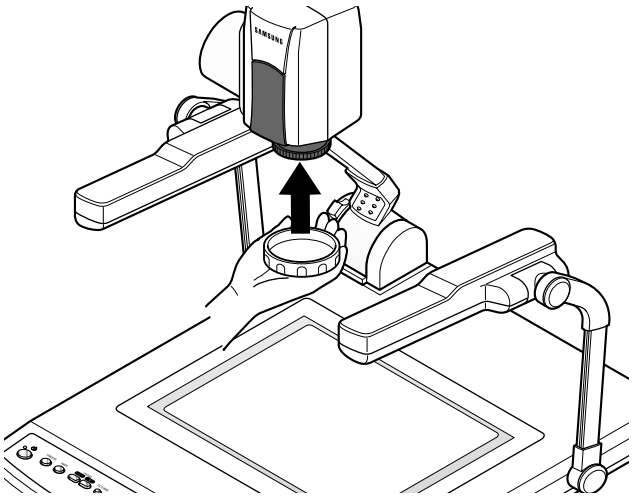
Use the Line Width Selection to set the line width to between 1 and 4 pixels.

Storage

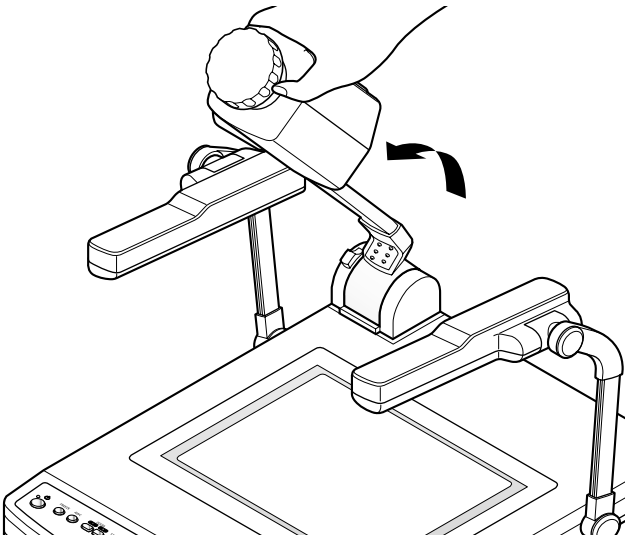
1 Turn the power off and unplug the power cord.



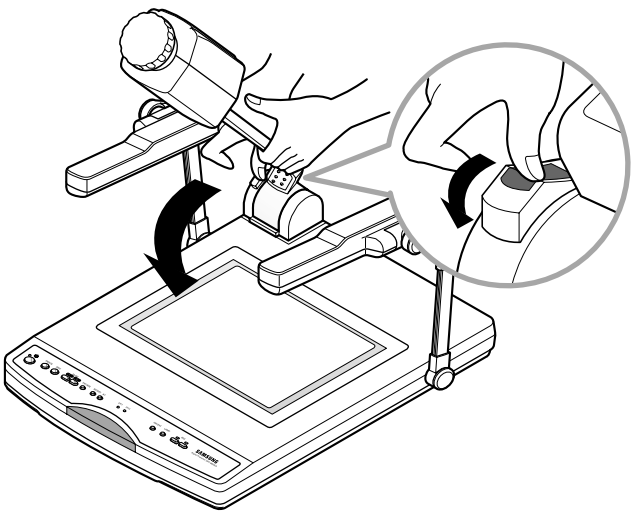
2 Attach the lens cap.



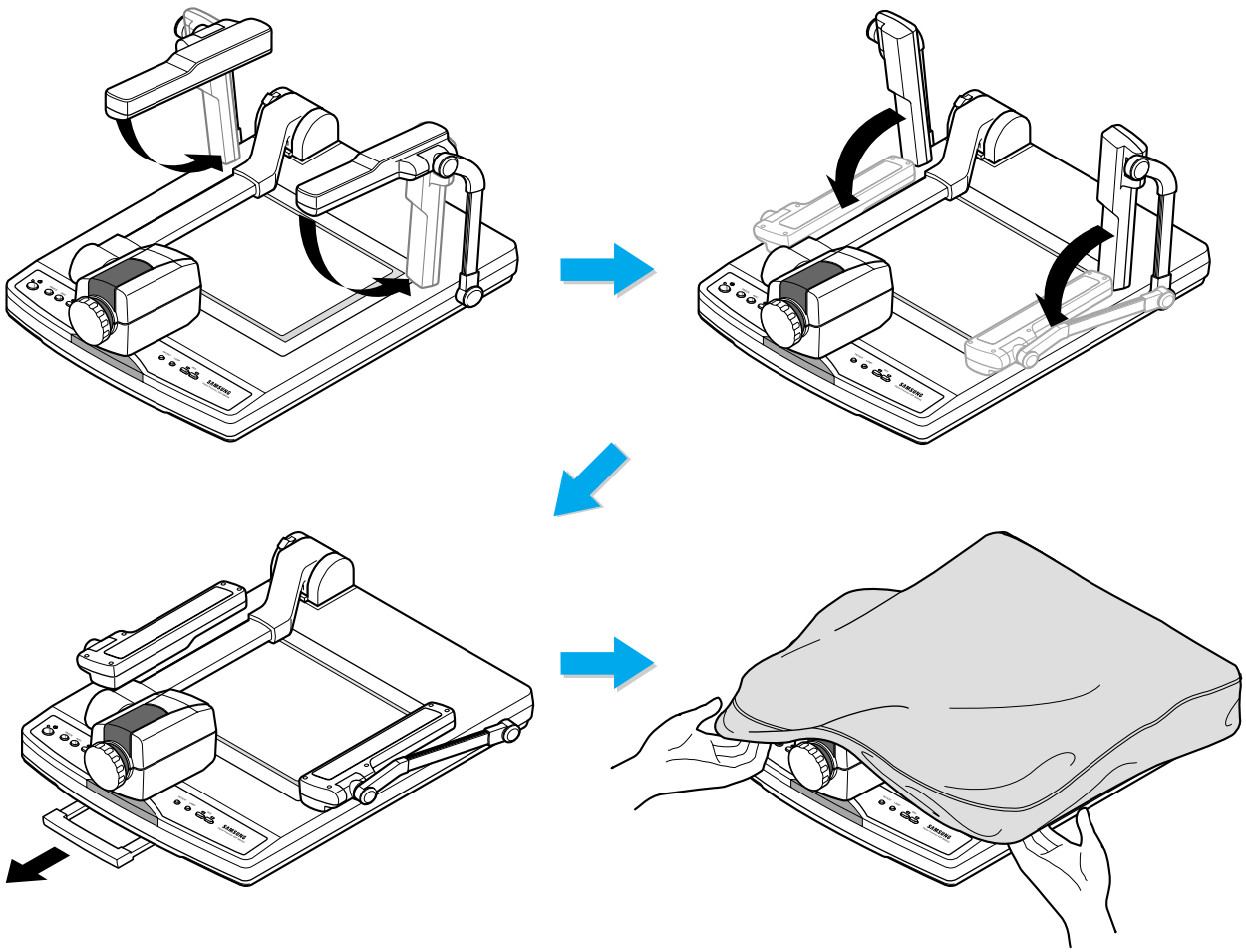
3 Turn the head upside down.



4 While you pull the main lock button toward the front of the presenter, fold the head completely.



5 Fold the lamps on both sides completely.



Use the handle when you move it.

When you do not use it for a long time, protect it with the cover supplied.

NOTE • **Be cautious. When you press the Main Lock button, the main support may come up suddenly.**

Trouble shooting

No image appears

- Check if the resolution of the output device corresponds to that of the digital presenter. (For example, when the maximum resolution of a projector is SVGA and if the digital presenter is set to XGA, then no image appears.)
- Check if the input selection of the output device is appropriate.
- Check if the iris control is adequate.
- Check if the VGA cable is connected to the VGA output terminal correctly.
- Check if the lens cap is removed.

No communication between the PC and USB.

- Make sure the operating system is Windows 98 or later. It doesn't work on Windows 95.
- For other detailed information, please refer to the program manual supplied with the product.

No image from a slide film or a negative film.

- Check if the light box is turned on.
- Adjust the lens to face the film directly.
- Check if the NEGA/POSI button is selected properly.

remote controller is not working.

- Check the battery of the remote controller. Replace it with a new one.

The image is out of focus.

- Check if the adaptor lens is attached properly for the purpose. (See page 21.)
- Check if the distance from the object is too short.

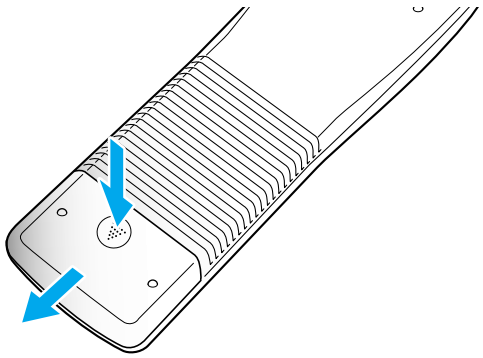
When you use GUI, the mouse is not seen or does not work normally.

- Check the contact condition of mouse port and make sure it's mouse offered by Samsung Techwin.
(It may not work if it's not mouse offered by Samsung Techwin.)

If there are problems, please contact the store you purchased the product or our distributor nearest you.

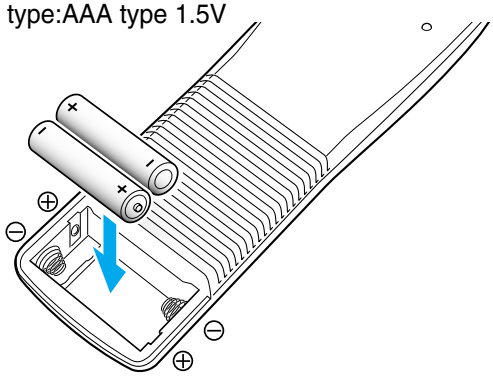
Battery replacement

1 Open the battery compartment lid at the back of the remote controller.

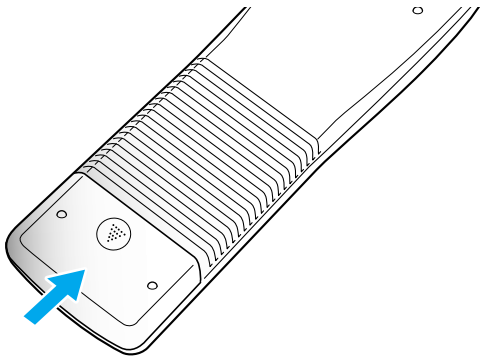


2 Insert new batteries.

• Battery type:AAA type 1.5V

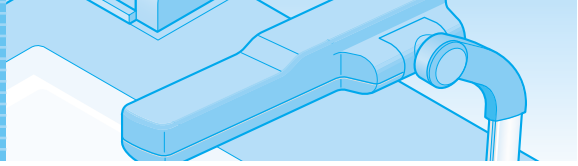


3 Close the lid.



CAUTION

Random replacement of built-in battery by other types of batteries may cause explosion. Thus, the battery shall be replaced by the same battery. And the used batteries shall be disposed carefully because they can cause environment pollutions.



Specifications

※ **Note:** Specifications are subject to change without notice.

Specifications		Description
Optical system	Lens	F=1.5(Wide)~2.1(Tele) f=5.2~66.5, 12x power zoom
	Shooting Area	Max: 299 x 224mm ,Min: 21 x 16mm
	Zoom	Powered (12x), Digital (3X)
	Focus	Powered (Auto Focus / Manual)
	Iris	Auto (with fine level adjustment)
Illumination system	Upper	Attached to the side arm of the main unit
	Lower	Light box (built-in main unit)
Video	Pick-up Device/ Effective pixel	1/3" 850,000 pixels PS CCD / 1034(H) x 779(V)
	Frame rate	20 frame/sec
	Sync system	Internal sync.
	VGA output	1024 x 768(XGA) RGB color, 800 x 600(SVGA) RGB color.
	Video output	C-Video VBS 1.0$V_{p\text{-}p}$ / 75Ω (unbalance) S-Video Y: 1.0$V_{p\text{-}p}$ / 75Ω (unbalance) C: 0.286$V_{p\text{-}p}$ / 75Ω (unbalance)
	White Balance	Manual / Auto (one touch type)
	Negative / Positive	Selectable
	Freeze	built-in
	Input terminals	VGA:2
	Output terminals	VIDEO:1, VGA:2, USB:1, DVI:1, RS-232C:1, S-Video:1
	NTSC / PAL	Selectable
	Remote controller	Supplied
	GUI(Graphic User Interface)	Supplied
	Input selection	3 channels (Internal: 1, External: 2)
	On-screen display	Available
	Image freeze	Available
	Image save	Available (8 frames)
	Image recall	Available (8 frames)
	Image divide	Available (2divide of 9 divide)
	Image rotation	Available (90˚, 180˚, 270˚)
	Image transfer to computer	Available (USB: QUAR, HALF, FULL, SCREEN FULL)
	Preset function	Up to 4 user settings
PC connection	USB	built-in
	RS-232C	SET control
	Application software	Viewer (for Windows 98, 98SE, ME, 2000 Professional, XP), TWAIN Driver (for windows), AVI Capture for Windows Mac Program(Mac OS 10.2)
General	Operating temperature/ Humidity	+5˚C ~ +35˚C, 30% ~ 90%
	Power	DC12V (Adaptor INPUT: AC100V~240V Free Voltage, 50/60Hz, OUTPUT: 12V, 4.0A)
	Dimensions(mm)	In-use: 760(W) x 573(H) x 558(D) Storage: 562(W) x 165(H) x 573(D)
	Weight	10kg
	Accessories	Remote controller, Cables, etc.

Memo